

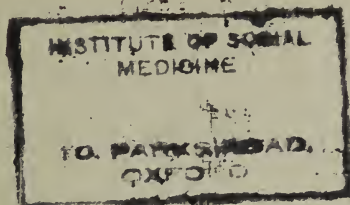
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COUNTY BOROUGH OF BIRKENHEAD



# ANNUAL REPORT

OF THE

# MEDICAL OFFICER

FOR

# 1945

D. MORLEY MATHIESON, M.A., M.D.(Edin.), Ch.B., D.P.H.

Medical Officer of Health;

Chief Medical Officer for the Municipality's Hospital, Maternity, Child Welfare,  
and other Medical Services.



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## NOTE

In conformity with general instructions issued by the Ministry of Health, this report for the year 1945—my twenty-seventh annual report—is, like its immediate predecessors, drafted in abbreviated form.

The year has seen the end of the German and Japanese wars, and subsequently the beginning of the demobilisation from H.M. Forces of serving members of the staff. During the war period the work and responsibilities of the department have been greatly increased ; and on the staff a heavy burden has been placed. I cannot speak too highly of the way in which this burden has been carried, or of the loyalty and team-spirit which have enabled so much to be done with diminished resources.

Appreciation must also be expressed of the continued encouragement given by those members of the Council who are keenly interested in maintaining a high standard of efficiency and adequacy in the various branches of the public health service.

D.M.M.

COUNTY BOROUGH OF BIRKENTHEAD  
MEDICAL OFFICER'S DEPARTMENT  
ANNUAL REPORT 1945

Errata

Page 3. The live birth rate for 1945 should read 20.4

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# POPULATION, BIRTHS, AND DEATHS

## POPULATION

**Population.**—The population of the Borough, as recorded at the time of the 1931 census was 147,803.

The Registrar-General has estimated the population of the Borough as at mid-year 1945 to be 121,660.

## BIRTHS

**Births registered during 1945, and birth rate.**—During the year 2,485 live births belonging to the Borough were *registered*.

The live birth rate for 1945 was ~~21.2~~ **20.4**

**Birth rate in recent years.**—The birth rates since 1935 are as follows:—

|            |                               |
|------------|-------------------------------|
| 1935 ..... | 17.0 per 1,000                |
| 1936 ..... | 16.4 „                        |
| 1937 ..... | 16.3 „                        |
| 1938 ..... | 17.0 „                        |
| 1939 ..... | 16.8 „                        |
| 1940 ..... | 18.7 „                        |
| 1941 ..... | 18.5 „                        |
| 1942 ..... | 19.6 „                        |
| 1943 ..... | 21.9 „                        |
| 1944 ..... | 23.3 „                        |
| 1945 ..... | <del>21.2</del> <b>20.4</b> „ |

**Still births.**—In addition to live births, 88 still births belonging to Birkenhead were registered in accordance with Section 7 of the Births and Deaths Registration Act, 1926. This is equivalent to a still birth rate of 0.72.

## Comparison of birth rate with rates for country generally:—

|                                                                                                 | Per 1,000 of population |              |
|-------------------------------------------------------------------------------------------------|-------------------------|--------------|
|                                                                                                 | Live births             | Still births |
| England and Wales .....                                                                         | 16.1                    | 0.46         |
| 126 County Boroughs and Great Towns<br>(including London) .....                                 | 19.1                    | 0.58         |
| 148 smaller towns (estimated resident<br>populations 25,000 to 50,000 at<br>census, 1931) ..... | 19.2                    | 0.53         |
| London Administrative County .....                                                              | 15.7                    | 0.40         |
| Birkenhead .....                                                                                | 21.2                    | 0.72         |

**Sex-distribution of births.**—Of the 2,485 live births, 1,323 were males and 1,162 females; a proportion of 1,000 : 878.

**Legitimacy.**—Of the 2,485 live births registered 225 were illegitimate, a percentage of 8.10.

**Registration of stillbirths.**—The 88 stillbirths registered were classified as follows:—

|                          |       |
|--------------------------|-------|
| Legitimate—Males .....   | 43    |
| Females .....            | 36    |
| Illegitimate—Males ..... | 3     |
| Females .....            | 6     |
|                          | <hr/> |
|                          | 88    |
|                          | <hr/> |

The stillbirth rate was 34 per 1,000 total births.

**Births notified during 1945.**—During the year, 2,813 births were notified in the Borough under Section 203 of the Public Health Act, 1936. Of these, 97 were stillbirths, leaving a total of 2,716 live births. This total includes births which occurred in the Birkenhead Maternity Hospital and the Birkenhead Municipal Hospital, many of which were transferable to other areas.

The following is an analysis of the above births:—

Births in Public Institutions :—

|                                   |     |                  |
|-----------------------------------|-----|------------------|
| Birkenhead Maternity Hospital ... | 541 | (20 stillbirths) |
| Birkenhead Municipal Hospital ... | 651 | (42     ,,     ) |
| Birkenhead General Hospital ..... | —   | (—     ,,     )  |
| Births in Nursing Homes .....     | 363 | ( 5     ,,     ) |

Other births :—

|                            |      |                  |
|----------------------------|------|------------------|
| Notified by doctors .....  | 6    | (—     ,,     )  |
| Notified by midwives ..... | 1155 | (30     ,,     ) |
| Notified by parents .....  | —    | (—     ,,     )  |

---

2716 (97 stillbirths)

---

**Un-notified births.**—The Registrars reported 52 cases of un-notified births; 16 by both certified midwives and doctors, 31 by the Maternity Hospital staff, 2 by the Municipal Hospital staff, 2 by Annandale Nursing Home, and 1 by Egerton Park Nursing Home.

## DEATHS

**Death - rate.**—1,675 deaths occurred during the year; the total figure includes 105 deaths of Birkenhead residents which occurred outside the Borough, but excludes 382 deaths of non-residents which occurred in the area. This gives a death-rate of 13.7 per 1,000.

**Deaths in recent years.**—The death-rates since 1935 are as follows:

|            |                |
|------------|----------------|
| 1935 ..... | 12.5 per 1,000 |
| 1936 ..... | 12.6     ,,    |
| 1937 ..... | 13.0     ,,    |
| 1938 ..... | 12.1     ,,    |
| 1939 ..... | 12.9     ,,    |
| 1940 ..... | 16.1     ,,    |
| 1941 ..... | 18.9     ,,    |
| 1942 ..... | 14.3     ,,    |
| 1943 ..... | 14.8     ,,    |
| 1944 ..... | 13.3     ,,    |
| 1945 ..... | 13.7     ,,    |

**Sex-distribution of deaths.**—Of the total deaths, 874 were males and 801 females, a proportion of 1,090 : 1,000.

**Uncertified deaths.**—In 1945 there were no uncertified deaths belonging to the area.

**Coroners' inquests.**—Coroners' inquests were held regarding 77 deaths—that is, in 4 per cent. of the total deaths during the year.

**The Coroners' (Amendment) Act, 1926.**—Under the provisions of this Act, which came into force on 1st May, 1927, a Coroner may certify death, after a post-mortem examination has been held, **without an inquest**. During the year 61 of the registered deaths (3.6 per cent. of the total deaths) were certified in this way.

**Infantile mortality.**—There were 194 deaths of infants under 1 year old. This corresponds to an infantile mortality rate of 78 per 1,000 births.

There were 20 deaths in illegitimate infants under 1 year old; giving an illegitimate mortality rate of 88 per 1,000.

The infant mortality rates for each year since 1935 are given below:

|      |     |
|------|-----|
| 1935 | 67  |
| 1936 | 63  |
| 1937 | 77  |
| 1938 | 75  |
| 1939 | 58  |
| 1940 | 80  |
| 1941 | 102 |
| 1942 | 68  |
| 1943 | 74  |
| 1944 | 59  |
| 1945 | 78  |

The main causes of infant deaths during the past two years are shown below:—

|                           | No. in<br>1944 | No. in<br>1945 |
|---------------------------|----------------|----------------|
| (a) Pneumonia (all forms) | 30             | 27             |
| Bronchitis                | 2              | 2              |
| Whooping cough            | 1              | 2              |
| Measles                   | —              | —              |
| Diarrhoea and enteritis   | 21             | 42             |
| (b) Premature birth       | 40             | 58             |
| (c) All other causes      | 69             | 63             |
|                           | 163            | 194            |

**Deaths from tuberculosis.**—Tuberculosis was responsible for 6.7 per cent. of all the deaths recorded in the Borough in 1945. The deaths from the disease were as follows:—

|                                         |     |
|-----------------------------------------|-----|
| Deaths from tuberculosis of the lungs   | 101 |
| Deaths from other forms of tuberculosis | 11  |
|                                         | 112 |

This gives a tuberculosis death-rate of 0.92 per 1,000 of the population.

Of the 101 deaths from respiratory tuberculosis during 1945, 92 occurred in persons between 15 and 65 years old—that is, of a wage-earning age.

**Deaths from certain epidemic diseases.**—The seven “ principal epidemic diseases ” caused 59 deaths, as follows :—

|                                                  |    |
|--------------------------------------------------|----|
| Diarrahœa and enteritis (under 2 years) .....    | 45 |
| Whooping cough .....                             | 4  |
| Measles .....                                    | 1  |
| Scarlet fever .....                              | 1  |
| Diphtheria (including membranous croup) .....    | 8  |
| Fever (enteric, typhus, and simple continued)... | —  |
| Smallpox .....                                   | —  |

This corresponds to a death-rate from all these diseases of 0.48 per 1,000 of the population.

**Deaths from other notifiable infectious diseases.**—Pneumonia caused, in its various forms, 78 deaths; encephalitis 3; and erysipelas 1.

## **WATER SUPPLY, FOOD AND DRUGS, AND DISEASES OF ANIMALS**

**Water Supply.**—During the year 60 samples of water from the Alwen and other supplies were bacteriologically examined in the Laboratory of the department. In addition, 43 tests for enteric were carried out.

The water supply has, throughout the year, been satisfactory in quality and adequate in quantity. The Water Engineer informs me that the chemical tests carried out in his department have all given satisfactory results. The water is not plumbo-solvent. The houses in the borough (approximately 30,000) are all supplied direct.

**Milk sampling by Sanitary Inspection Staff.**—166 samples of milk were taken, and examined bacteriologically at the Municipal Laboratory, during the year. 100 of these samples were satisfactory, and 66 unsatisfactory. Suitable action was taken with regard to the unsatisfactory samples.

This is a reduction in the number of samples dealt with as compared with 1944; a reduction due to shortage of staff at the Laboratory.

The percentage of unsatisfactory samples is higher than in 1944—this is to be attributed to the introduction of a new test for pasteurised milk.

41 samples of milk were taken and examined for the presence of *B. tuberculosis*. 2 gave a positive result.

**Other sampling.**—During 1945, 459 samples were taken under the Food and Drugs Acts. Of these, 229 were formal and 230 informal; 238 were samples of milk.

Of the total number of samples analysed, 34 were reported adulterated, and proceedings were taken in respect of 6 of these. Penalties were inflicted in 4 cases.

**Meat inspection, and inspection of foodstuffs in shops.**—During the year 89,720 animals were slaughtered in the area, an increase of 11,228 on the preceding year. Approximately 324 tons of meat were condemned during the year. This condemned meat was utilised in the manufacture of non-edible by-products. In the inspection of shops, etc., foodstuffs amounting to 9,068 lbs. and 9,075 tins (various sizes) of meat, fish, fruit, milk and 1,656 packets and 54 jars of various food stuffs, 40 dozen eggs, and 317 fishcakes were found to be unfit for human consumption, and were condemned.

**Services to Municipal Hospital.**—At least twice weekly visits have been paid by a member of the Meat Inspection staff to the Municipal Hospital, to inspect the foodstuffs there, and in the absence of a competent butcher to cut the meat into suitable portions for the kitchen staffs to handle.

**Slaughter of Animals Acts 1933.**—39 renewals of licences to slaughter animals were granted to butchers employed in Birkenhead.

**Diseases of Animals Acts.**—Work under the above Acts has involved

(1) Visits to ships to supervise the destruction of dogs and cats, and to explain the provisions of the Acts with regard to the importation of these animals.

(2) The supervision of the disinfecting of premises from which tuberculous dairy cattle have been removed for slaughter.

(3) The examination of store pigs kept within the Borough, to ensure that the animals are free from Swine Fever, and that the swill etc. is not fed to them uncooked.

(4) Visits to Taylor Street cattle sidings to supervise animals passing through (in 9 cases sheep were found dead on arrival) and to take precautions against suspected Anthrax.

Twice during the year Birkenhead was placed within a Foot and Mouth Disease restrictions area, and licences for the movement of animals and the removal of manure etc. within the area were issued. The disinfection of vehicles carrying animals was supervised.

## TUBERCULOSIS

The clinical care of patients attending the tuberculosis clinic and the Orthopædic Hospital, and of tuberculous patients attending the Municipal Hospital, has throughout the year been in the hands of Dr. Foster, Clinical Tuberculosis Officer.

### New Cases

(a) Pulmonary.—The number of notifications of the pulmonary type of tuberculosis is still on the increase : 251, as compared with 223 in 1944. A disturbing feature is the increase in children, the number having risen from 8 last year to 19 in 1945. The probable cause in many cases is cramped housing condition. Not uncommonly a patient suffering from open pulmonary tuberculosis has to live and sleep in the same room with one or more children; it is difficult to see how such children can escape infection, however careful the patient may be.

(b) Non-Pulmonary.—On the other hand the notifications of non-pulmonary tuberculosis have dropped by half, from 65 to 32.

**Payment of Allowances.**—The arrangement instituted in 1943 whereby payment of both Government (Memo. 266/T) and Corporation Allowances are made weekly at the Tuberculosis Clinic has worked smoothly and expeditiously. The amount paid under Memo. 266/T was £2,740; and that under the Corporation Scheme £2,980.

**Occupational Therapy.**—During the year the Clinic Almoner started a handicraft class at 42 Hamilton Square on Monday afternoons. This is confined to ex-sanatorium patients who are unable to return to their ordinary work; and the response has been good. Practically all the Cheshire Joint Sanatorium patients have learned leather and raffia work, and some display a high degree of efficiency.

This class could be greatly extended if the necessary materials were forthcoming; but these are scarce and the various "Controls" require numerous forms to be completed before purchases can be made. The class is self-supporting and owes its inception to a grant from Messrs. Woolworth which covered the initial outlay. The patients dispose of their work as they wish after paying for the cost of the materials.

The female patients on the "Bridge" at the Municipal Hospital are included in the scheme, if their health permits, and have made various articles of embroidery and needlework.

**Artificial Pneumo-Thorax Clinic.**—The number of refills done at the Municipal Hospital now exceeds 2,000 and increases yearly by arithmetical progression, as the number of new cases requiring such treatment is greater than the number of cases in which the treatment is abandoned.

**Birkenhead Orthopædic Hospital for Children.**—The decrease in the number of admissions in 1945 was due to the re-painting and re-decorating of the wards. This entailed the closure of one ward for practically three months.

**Surgical and Radium treatment.**—Surgery is now playing a greater part in the treatment of chest diseases, and the appointment of Mr. Ronald Edwards as consultant in thoracic surgery has been most helpful. More and more patients are now being referred to the Radium Institute and to the Chest Unit at Broadgreen, and the results of surgical treatment on such chest conditions as bronchiectasis, cysts, and benign tumours of the respiratory system have been most successful.

**Non-Pulmonary Tuberculosis.**—Mr. Horace Davies, as Orthopædic Surgeon, deals with the majority of cases of bone and joint disease, and in respect of these, Birkenhead is in the enviable position of having no shortage of beds in open-air institutions.

## DEATHS

|            | Adults.    |                | Children.  |                | Total. |
|------------|------------|----------------|------------|----------------|--------|
|            | Pulmonary. | Non-pulmonary. | Pulmonary. | Non-pulmonary. |        |
| 1938 ..... | 90         | 9              | 8          | 8              | 115    |
| 1939 ..... | 118        | 7              | 8          | 6              | 139    |
| 1940 ..... | 65         | 1              | 2          | 2              | 70     |
| 1941 ..... | 87         | 3              | 5          | 2              | 97     |
| 1942 ..... | 76         | —              | 2          | 1              | 79     |
| 1943 ..... | 72         | 3              | 1          | 1              | 77     |
| 1944 ..... | 77         | 3              | —          | —              | 80     |
| 1945 ..... | 99         | 2              | 1          | 9              | 111    |

The number of cases of tuberculosis notified during the year was 283, made up as follows :—

|                   | Males                 |                          | Females               |                          | Total |
|-------------------|-----------------------|--------------------------|-----------------------|--------------------------|-------|
|                   | Up to 15 years of age | 15 years of age and over | Up to 15 years of age | 15 years of age and over |       |
| Pulmonary .....   | 9                     | 151                      | 10                    | 81                       | 251   |
| Other forms ..... | 12                    | 3                        | 10                    | 7                        | 32    |
| Total.....        | 21                    | 154                      | 20                    | 88                       | 283   |

The number of cases on the *Notification* Register at the end of the year was 1,430. Of these, 1,062 (619 males and 443 females) were suffering from respiratory tuberculosis, and 368 (163 males and 205 females) were suffering from non-respiratory tuberculosis.

The number of cases on the *Clinic* Register at the end of the year was 1,153. Of these, 871 (492 males and 379 females) were suffering from respiratory tuberculosis, and 282 (132 males and 150 females) were suffering from non-respiratory tuberculosis.

## BIRKENHEAD ORTHOPAEDIC HOSPITAL FOR CHILDREN

**Patients dealt with.**—At the commencement of the year there were 36 patients in the Hospital. There were 46 admissions during the year. These were classified as follows:—

|                                                     |    |
|-----------------------------------------------------|----|
| Tuberculosis of bones and joints .....              | 10 |
| „ „ abdominal glands or peritoneum ...              | 6  |
| „ „ cervical and other glands .....                 | 9  |
| „ „ other organs .....                              | 7  |
| For observation and diagnosis .....                 | 5  |
| Non-Tubercular conditions of bones and joints ..... | 2  |
| Non-Tubercular conditions of other organs .....     | 7  |

There were 29 patients under treatment at the end of the year.

**Average duration of stay.**—For the patients discharged during the year the average length of stay in the hospital was 26 weeks.

## CHESHIRE JOINT SANATORIUM

The approved accommodation for Birkenhead cases is 32 beds.

**Patients dealt with.**—At the beginning of the year 28 Birkenhead patients were under treatment. During the year 48 Birkenhead patients were admitted, and 44 were discharged; 32 patients remained under treatment at the end of the year.

|                                                 | Men | Women | Children<br>(under 15) | Total |
|-------------------------------------------------|-----|-------|------------------------|-------|
| In Sanatorium January 1, 1945 .....             | 14  | 14    | —                      | 28    |
| Admitted during year .....                      | 28  | 20    | —                      | 48    |
| Discharged or left Sanatorium during year ..... | 25  | 19    | —                      | 44    |
| Died in Sanatorium .....                        | —   | —     | —                      | —     |
| In Sanatorium December 31, 1945 .....           | 17  | 15    | —                      | 32    |

## LEASOWE HOSPITAL

**Children.**—There were 2 cases in hospital at the beginning of the year; 2 new cases were admitted during the year, and 2 have been discharged; leaving 2 patients in hospital at the end of the year.

**Adults.**—There were 2 female adults in Leasowe Hospital at the beginning of the year; 4 new cases (females) were admitted during the year, and 1 case was discharged before the end of the year; leaving 5 patients in hospital at the end of the year.

## BIRKENHEAD MUNICIPAL HOSPITAL

**Artificial pneumothorax treatment.**—During 1945, 2,115 refills were given by Dr. Foster, including 12 primary inductions. This represents an increase of 157 refills over those given during 1944. There were 2,705 screenings performed during the year.

**X-ray examinations.**—During the year 1,324 patients were sent from the Tuberculosis Clinic for X-ray examination at the Municipal Hospital, an increase of 216 over the number X-rayed during 1944.

16 Bronchograms were done during 1945.

## VENEREAL DISEASES

The municipal venereal diseases clinic at the Birkenhead General Hospital has throughout the year been in the charge of Dr. Eric Blackstock. An indication of the work carried out at the clinic, and some notes on the clinical and administrative observations made by Dr. Blackstock, are included in the following paragraphs.

An increase in Venereal Diseases during the past year was expected, especially in the number of cases of Gonorrhœa, as this disease became less and less controlled by the administration of sulphonamides, and penicillin was in short supply, so that persons suffering from Gonorrhœa remained a source of danger for a much longer period. Had penicillin not been available at all there would have been a very alarming rise in the incidence of Gonorrhœa, and the peace-time ratio of 9 cases of Gonorrhœa to 1 of Syphilis would have returned.

A further rise in the number of cases of Gonorrhœa may again occur, as patients are freed from symptoms so quickly by treatment with penicillin that they have no hesitation in returning to their promiscuous mode of life at an early date, and fear of Gonorrhœa for them has ceased.

The use of penicillin in the treatment of Venereal Disease may effect cure quickly, but unfortunately it will also abolish fear of more than one attack, thus removing the only check which keeps many people from indulging in illicit sexual intercourse. Already this year some patients seen in Birkenhead have had two or three re-infections.

There is a marked rise in the number of persons attending the Clinic who were found not to be suffering from Venereal Disease. This can be interpreted in two ways; either people are more conscious of the danger of acquiring the disease, or there is generally more promiscuity. Probably the latter obtains in most cases.

The treatment of Syphilis with penicillin is still in its experimental stage, and many years must elapse before its true curative value is known. Its rapid elimination of the obvious signs of primary Syphilis and Gonorrhœa tend to make patients default before finally discharged as cured, and many cease to attend when they are still harbouring Gonococci or the treponema of Syphilis. These patients may be seen again after the lapse of years suffering from the tertiary manifestations of Syphilis, such as heart disease, locomotor ataxia, etc., or again their children may be born with the stigmata of congenital Syphilis.

The control and treatment of Venereal Disease is to-day a major problem in preventive medicine, and as the control is at present vested in Local Authorities it is necessary for them to make every effort to lower the incidence of the disease and make available adequate treatment facilities in their areas. It has long been realised that the accommodation for treatment in Birkenhead is very inadequate.

The question of providing suitable premises, which could not receive attention during the war, is now being investigated by the Health Committee. Difficulties have become much more acute since the use of penicillin. Only by improvisation of equipment and long staff working hours has it been possible to deal with the increase in work. Males and females have to be treated at the same time and wait in the one available waiting room. As over ten thousand attendances were made during 1945, one can easily imagine how uncomfortable the patients have been and what degree of privacy they have had. The staff at the Clinic carry on their work under severe handicap, and this must continue as long as the premises consist of one treatment room, one waiting room, one dispensary and one doctor's room, and no staff room.

The recommendations from the Ministry of Health as regards tracing of contacts and the treatment of Venereal Disease under modern therapeutic methods cannot be carried out until new premises are provided, and a sufficient staff is adequately accommodated.

There is no ground for expecting that the operation of Regulation 33B and the use of penicillin will stamp out Venereal Diseases; their treatment will be necessary for many years to come.

During the year 1945, 1,067 persons attended the clinic at the General Hospital. 317 of these were suffering from Syphilis, 337 from Gonorrhœa, and 4 from soft sore. 409 were considered not to be suffering from Venereal Disease, though in some cases their disease was caused by sexual intercourse. 10,195 treatments were given to patients during the year.

Details of attendances and new cases at the Clinic during the years 1940 to 1945 are set out below :—

(a) **Total attendances**

| Year     | Males | Females | Total  |
|----------|-------|---------|--------|
| 1940 ... | 3,688 | 1,745   | 5,433  |
| 1941 ... | 3,183 | 1,975   | 5,159  |
| 1942 ... | 4,052 | 3,603   | 7,655  |
| 1943 ... | 4,486 | 5,716   | 10,202 |
| 1944 ... | 4,161 | 5,045   | 9,206  |
| 1945 ... | 5,131 | 5,064   | 10,195 |

(b) **New Cases**

| Year | Syphilis |          | Soft Chancre |          | Gonorrhœa |          | Non-Venereal |          | Totals |          | Total New Cases |
|------|----------|----------|--------------|----------|-----------|----------|--------------|----------|--------|----------|-----------------|
|      | Males    | Fe-males | Males        | Fe-males | Males     | Fe-males | Males        | Fe-males | Males  | Fe-males |                 |
| 1940 | 46       | 17       | 7            | —        | 110       | 14       | 94           | 24       | 257    | 55       | 312             |
| 1941 | 49       | 23       | 11           | —        | 138       | 13       | 93           | 25       | 291    | 61       | 352             |
| 1942 | 47       | 48       | 3            | —        | 110       | 52       | 99           | 35       | 259    | 135      | 394             |
| 1943 | 59       | 43       | 3            | —        | 120       | 102      | 214          | 111      | 396    | 256      | 652             |
| 1944 | 60       | 39       | 3            | —        | 73        | 56       | 188          | 117      | 324    | 212      | 536             |
| 1945 | 48       | 31       | 2            | 1        | 109       | 94       | 248          | 107      | 407    | 233      | 640             |

## OTHER INFECTIOUS DISEASES

### INFECTIOUS DISEASES WHICH ARE NOTIFIABLE

Below is a table showing the number of cases of infectious diseases (other than tuberculosis) notified during 1945 at various ages :—

| Disease                                    | und<br>1 yr. | 1-2<br>yrs. | 2-3<br>yrs. | 3-4<br>yrs. | 4-5<br>yrs. | 5-10<br>yrs. | 10-15<br>yrs. | 15-20<br>yrs. | 20-35<br>yrs. | 35-45<br>yrs. | 45-65<br>yrs. | 65<br>yrs.<br>up | Total |
|--------------------------------------------|--------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|------------------|-------|
| Smallpox .....                             | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Scarlet fever .....                        | 6            | 23          | 32          | 37          | 31          | 182          | 77            | 22            | 22            | 6             | 2             | —                | 440   |
| Diphtheria and membra-<br>nous croup ..... | 3            | 9           | 9           | 4           | 11          | 56           | 20            | 15            | 17            | 3             | 5             | —                | 152   |
| Erysipelas .....                           | —            | 1           | 1           | —           | —           | —            | —             | —             | 5             | 7             | 15            | 9                | 38    |
| Typhus fever .....                         | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Enteric fever .....                        | —            | —           | —           | —           | —           | —            | —             | 1             | —             | —             | —             | —                | 1     |
| Continued fever.....                       | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Relapsing fever .....                      | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Cerebro-spinal meningitis                  | —            | —           | 1           | 1           | 1           | 3            | 3             | 1             | 3             | 2             | —             | —                | 15    |
| Encephalitis lethargica<br>(acute).....    | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Polio-encephalitis (acute)                 | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Poliomyelitis (acute) ..                   | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Puerperal pyrexia .....                    | —            | —           | —           | —           | —           | —            | —             | —             | 14            | 1             | —             | —                | 15    |
| Ophthalmia neonatorum                      | 5            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | 5     |
| Cholera .....                              | —            | —           | —           | —           | —           | —            | —             | —             | —             | —             | —             | —                | —     |
| Pneumonia.....                             | 34           | 23          | 15          | 7           | 12          | 22           | 10            | 19            | 18            | 25            | 45            | 35               | 265   |
| Malaria .....                              | —            | —           | —           | —           | —           | —            | —             | —             | 3             | 1             | —             | —                | 4     |
| Dysentery .....                            | 1            | 3           | 5           | 1           | 1           | 3            | 1             | —             | 1             | —             | —             | —                | 16    |
| * Measles .....                            | 37           | 48          | 60          | 38          | 34          | 92           | 16            | 4             | 8             | —             | —             | —                | 337   |
| * Whooping cough .....                     | 63           | 66          | 70          | 65          | 31          | 84           | 7             | —             | —             | —             | 1             | —                | 387   |
| Totals .....                               | 149          | 173         | 193         | 153         | 121         | 442          | 134           | 62            | 91            | 45            | 68            | 44               | 1675  |

\* Made notifiable under the Measles and Whooping Cough Regulations, dated October 23rd, 1939.

The number of patients treated in the Infectious Diseases Hospital during the year was as follows :—

|                                            |         |
|--------------------------------------------|---------|
| In hospital at beginning of year .....     | 58      |
| Admitted to hospital during year .....     | 640—698 |
| Discharged from hospital during year ..... | 623     |
| Number of deaths in hospital during year   | 12—635  |
| Remaining in hospital at end of year ..... | 63      |

An analysis of the cases dealt with during the year is given below:

| Patients sent in<br>as suffering from | In hospital<br>at beginning<br>of year | Admitted<br>during year | Died<br>during year | Discharged<br>during year | Remaining<br>in hospital at<br>end of year |
|---------------------------------------|----------------------------------------|-------------------------|---------------------|---------------------------|--------------------------------------------|
| Scarlet fever .....M.                 | 19                                     | 167                     | ...                 | 173                       | 13                                         |
| .....F.                               | 30                                     | 200                     | 2                   | 205                       | 22                                         |
| Diphtheria .....M.                    | 2                                      | 71                      | 5                   | 55                        | 13                                         |
| .....F.                               | 3                                      | 82                      | 2                   | 72                        | 11                                         |
| Enteric fever .....M.                 | ...                                    | 3                       | ...                 | 3                         | ...                                        |
| .....F.                               | ...                                    | 1                       | ...                 | 1                         | ...                                        |
| Cerebro-spinal fever .....M.          | ...                                    | 8                       | 1                   | 7                         | ...                                        |
| .....F.                               | ...                                    | 8                       | 1                   | 6                         | 1                                          |
| Erysipelas .....M.                    | ...                                    | 4                       | ...                 | 4                         | ...                                        |
| .....F.                               | ...                                    | 6                       | ...                 | 5                         | 1                                          |
| Measles .....M.                       | 1                                      | 11                      | ...                 | 12                        | ...                                        |
| .....F.                               | 1                                      | 10                      | ...                 | 11                        | ...                                        |
| Whooping Cough .....M.                | ...                                    | 3                       | ...                 | 1                         | 2                                          |
| .....F.                               | ...                                    | 2                       | ...                 | 2                         | ...                                        |
| Other diseases .....M.                | 1                                      | 33                      | ...                 | 34                        | ...                                        |
| .....F.                               | 1                                      | 31                      | 1                   | 31                        | ...                                        |
| Totals .....                          | 58                                     | 640                     | 12                  | 623                       | 63                                         |

Of the 4 patients sent into the Infectious Diseases Hospital as cases of enteric fever, none were found to be suffering from this disease.

### IMMUNISATION AGAINST DIPHTHERIA

Immunisation against diphtheria free of charge has continued throughout the year; the number of children who completed the course shows a slight increase compared with the previous year.

The number of children whose immunisation was completed during the year was 1,407, made up as follows :—

|                         |       |       |
|-------------------------|-------|-------|
| 1— 5 years of age ..... | 1,255 |       |
| 5—15 years of age ..... | 130   |       |
|                         | —     | 1,385 |
| 15 years and over ..... | 22    |       |
| Total .....             | 1,407 |       |

It is not possible to state exactly the total number of children in these age groups in Birkenhead but a fair estimate would be :—

|                         |        |  |
|-------------------------|--------|--|
| 1— 5 years of age ..... | 11,510 |  |
| 5—15 years of age ..... | 20,080 |  |
|                         | —      |  |
| Total .....             | 31,590 |  |

*Other infectious diseases*

Out of this total, the numbers of children who have now (that is, by the 31st December, 1945) received a complete course of immunisation against diphtheria as follows :—

|                            |        |         |
|----------------------------|--------|---------|
| Under 5 years of age ..... | 3,683  | (32%)   |
| 5—15 years of age .....    | 11,225 | (55.9%) |
| Total .....                | 14,908 | (47.1%) |

Tabular statement showing the number of children immunised each year since 1933 :—

| Age in years on 31st December of the corresponding year. | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 |                                                                        |
|----------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------------------------------------------------|
| Under 1 year .....                                       | —    | —    | 3    | 1    | 1    | 13   | 3    | 3    | 1    | —    | 18   | 9    | —    | Total inoculated aged under five years on 31st December, 1945<br>3683  |
| 1 year .....                                             | 2    | 1    | 62   | 16   | 19   | 31   | 12   | 15   | 106  | 419  | 551  | 548  | 714  |                                                                        |
| 2 years .....                                            | 2    | 8    | 29   | 15   | 24   | 73   | 45   | 31   | 201  | 501  | 465  | 347  | 355  |                                                                        |
| 3 years .....                                            | 7    | 7    | 42   | 12   | 30   | 78   | 32   | 25   | 211  | 414  | 392  | 65   | 139  |                                                                        |
| 4 years .....                                            | 2    | 13   | 62   | 19   | 28   | 77   | 28   | 19   | 184  | 379  | 382  | 57   | 47   |                                                                        |
| 5 years .....                                            | 4    | 12   | 201  | 24   | 43   | 125  | 43   | 23   | 244  | 350  | 246  | 60   | 37   | Total inoculated aged 5-15 years on 31st December, 1945<br>11225       |
| 6 years .....                                            | 6    | 11   | 479  | 29   | 48   | 174  | 31   | 19   | 450  | 264  | 285  | 48   | 27   |                                                                        |
| 7 years .....                                            | 2    | 9    | 580  | 18   | 32   | 190  | 45   | 27   | 478  | 219  | 320  | 43   | 17   |                                                                        |
| 8 years .....                                            | 8    | 9    | 591  | 13   | 19   | 200  | 32   | 27   | 511  | 163  | 248  | 23   | 10   |                                                                        |
| 9 years .....                                            | 1    | 12   | 668  | 10   | 23   | 120  | 23   | 18   | 511  | 129  | 286  | 21   | 12   |                                                                        |
| 10 years .....                                           | —    | 11   | 713  | 7    | 5    | 125  | 20   | 17   | 515  | 121  | 240  | 16   | 6    |                                                                        |
| 11 years .....                                           | —    | 1    | 666  | 7    | 10   | 96   | 11   | 10   | 655  | 112  | 292  | 16   | 11   |                                                                        |
| 12 years .....                                           | —    | 6    | 557  | 4    | 9    | 111  | 11   | 10   | 385  | 113  | 298  | 7    | 1    |                                                                        |
| 13 years .....                                           | —    | 3    | 532  | 4    | 6    | 62   | 9    | 7    | 336  | 103  | 198  | 15   | 1    |                                                                        |
| 14 years .....                                           | —    | 1    | 306  | 11   | 4    | 44   | 3    | 5    | 250  | 36   | 208  | 19   | 8    |                                                                        |
| 15 years and over                                        | 9    | 6    | 90   | 14   | 9    | 69   | 25   | 23   | 132  | 27   | 33   | 24   | 22   | Total inoculated aged 15 years and over on 31st December, 1945<br>9292 |
| Total each year.                                         | 43   | 110  | 5581 | 204  | 310  | 1588 | 373  | 279  | 5170 | 3355 | 4462 | 1318 | 1407 | Grand Total 1933-1945<br>24200                                         |

NOTE.—Included in the total are 656 children who had been immunised in reception areas and who had returned to Birkenhead up to 31st December, 1945.

**SKIN CLINIC**

2,950 attendances were made at the Clinic during the year by adults, and children under 5 years of age. Details of the defects treated are set out below.

Information relating to the treatment of school children may be found on page 43 of this report.

| Disease or defect                                      | Number of defects treated at the Clinic during the year |
|--------------------------------------------------------|---------------------------------------------------------|
| Scabies                                                |                                                         |
| (a) Uncomplicated .....                                | 338                                                     |
| (b) Complicated .....                                  | 246                                                     |
| Scabies contacts (found to be free from Scabies) ..... | 146                                                     |
| Diseases of the scalp (due to lice and nits).....      | 80                                                      |
| Other skin diseases .....                              | 223                                                     |
| Total ....                                             | 1,033                                                   |

## MUNICIPAL LABORATORY

The source, nature, and number of the specimens examined during 1945 at the municipal laboratory are set out in a table below. Dr. J. M. Ritchie has been in charge of this work.

The laboratory is a centre of supply of penicillin, and over 200 million units have been issued, for both systematic and local use, during the year.

### Specimens from Birkenhead sources examined during year 1945 :—

|                                | I.D. Hospital | B'head Mnn. Hospital | Other Sections of Dept. | Medical Practitioners | Total |
|--------------------------------|---------------|----------------------|-------------------------|-----------------------|-------|
| Swabs for Diphtheria—Pos. .... | 102           | 12                   | 1                       | 25                    | 140   |
| Neg. ....                      | 952           | 558                  | 22                      | 391                   | 1923  |
| Sputum for Tubercle—Pos. ....  | —             | 124                  | 134                     | 11                    | 269   |
| Neg. ....                      | 2             | 915                  | 472                     | 88                    | 1477  |
| Blood for Widal Pos. ....      | —             | —                    | —                       | —                     | —     |
| Neg. ....                      | 4             | 26                   | —                       | 2                     | 32    |
| Blood for Wassermann .....     | 2             | 263                  | 984                     | 709                   | 1958  |
| Smears for Gonococci .....     | 5             | 144                  | 1693                    | 19                    | 1861  |
| Other Examinations .....       | 235           | 10521                | 479                     | 528                   | 11763 |
|                                | 1302          | 12563                | 3785                    | 1773                  | 19423 |

### Specimens from Other Authorities :—

|                                               |        |
|-----------------------------------------------|--------|
| Clatterbridge (County) General Hospital ..... | 14,917 |
| Clatterbridge Isolation Hospital .....        | 3,270  |
| Wallasey (Mill Lane Hospital) .....           | 1,229  |
| Borough of Bebington .....                    | 376    |
| Wirral Urban District Council .....           | 125    |
| Hoylake Urban District Council .....          | 103    |
| Neston Urban District Council .....           | 9      |
|                                               | 20,029 |
| Total from all sources .....                  | 39,452 |

## **BIRKENHEAD MUNICIPAL (GENERAL) HOSPITAL**

During the past year, a considerable increase in the number of in-patients took place, 5,438 being admitted during the year. This figure is higher, with one exception, than that for any previous year since the Hospital was appropriated in 1933.

The whole-time Medical Staff of the Hospital consists of:—

Medical Superintendent (Dr. R. A. Grant)  
Deputy Medical Superintendent  
Senior Resident Medical Officer  
Four Resident Medical Officers

In addition, the part-time services of

A Radiologist  
A Physician  
An Aurist and Laryngologist  
A Psychiatrist  
A Consulting Surgeon in General Surgery  
An Orthopædic Surgeon  
An Obstetrician and Gynæcologist, and  
A Dental Surgeon

were retained, and Dr. Foster and Dr. Blackstock carried out duties as Consultants in their special subjects (tuberculosis and venereal diseases).

The Hospital is recognised as a Training School for the General Nursing Council, and as a Part 1 Training School for the Diploma of the Central Midwives Board; during the past year 14 members of the Nursing Staff have passed out from the Hospital as fully trained Nurses, and 9 were successful in Part 1 of the Central Midwives' Board examination.

Owing to air raid damage and other reasons directly or indirectly connected with the war, there has been a reduction of beds from 560 to 501. (On the other hand, since January, 1946, beds previously reserved for war casualties have now been released, and with the exception of Ministry of Pension cases, the Hospital is slowly returning to civilian condition).

During the winter, the chronic wards at the Hospital became congested, and it has on occasion been necessary to refuse the admission of this type of case from both Wallasey and Birkenhead. A definite and restricted number of beds has been set aside for chronic and incurable cases, including Pulmonary Tuberculosis, in order to avoid refusing admission of acute cases. When these chronic beds are filled the admission of further patients in this category has necessarily been postponed.

During November and December, 1945, the accommodation for acute medical and surgical cases was at times almost inadequate to meet the demands made on the Hospital. Indeed, it was only due to the additional accommodation provided at Arrowe Municipal Annexe that the Hospital was able to cope with the large number of admissions, which some times amounted to 500 per month.

During the latter part of 1945, the extension to the Maternity Section was begun. This work was not yet completed at the end of the year, but when it is will enable us to accommodate six more Maternity cases per month. The object of the alteration was mainly to improve working conditions. It was decided to utilise a ward which had previously contained 18 chronic beds, and transform it into a Post-Natal lying-in ward. The alteration, when completed, will add greatly to the comfort of Maternity patients, and will avoid the risk associated with the transferring of women during the puerperium from the Maternity Block to the main Hospital.

Stretcher bearers from the B.R.C.S. still continue to render valuable assistance to the Hospital. Their help is particularly appreciated in transferring cases to the Municipal Annexe at Arrowe on Sunday mornings. They have also kindly assisted the Nursing Staff in the wards and operating theatres after the day staff of Porters have left the Hospital, and a debt of gratitude is owed to the Red Cross for their kind assistance.

Towards the latter end of 1945, a new Kitchen Superintendent was appointed, and the Council have now agreed to the appointment of an Assistant Kitchen Superintendent. Considerable reorganisation of the Kitchen is proceeding at the present time with a view to improving the Dietary at the Hospital. An evening meal is now provided for patients, and is greatly appreciated. The diets at the Hospital are still far below pre-war level. This is mainly due to the national shortage of food, but every effort is being made by the Kitchen Superintendent to improve the standard of cooking as far as possible.

Shortage of Nursing Staff during 1945 has been a great difficulty. Along with other Hospitals, we have had difficulty in giving adequate attention to patients, and the standard of individual attention is definitely below that of pre-war years. This is entirely due to shortage of staff. Many non-Resident Nurses are now employed; members of the Civil Nursing Reserve have still been retained; but changes in the Nursing Staff have been much more frequent than in pre-war days, and such changes do not predispose to good nursing. In spite of all these difficulties, very few complaints have been received, and the Nursing Staff have carried on loyally under great difficulties.

**Arrowe Municipal Hospital Annexe.** Some 40 beds are now utilised for Convalescent cases in this Annexe as against 20 to 30 during the war; and 771 patients were admitted in 1945 as against 639 in 1944.

Mention has already been made of the value of the Annexe in relieving pressure at the Municipal Hospital, and there is no doubt that

patients are greatly benefited by a stay at Arrowe. It is noticed that patients are discharged more physically fit than when the entire convalescence was spent in the Municipal Hospital.

The Annexe is fitted throughout with wireless, and an excellent library is maintained by the B.R.C.S. The voluntary services given by the Librarian and her assistants, who distribute books and magazines to the patients every week, are much appreciated.

A considerable number of children suffering from rheumatic disease are treated in the Annexe. These children require prolonged convalescence in order to avoid the disabling heart complications so common in this disease. Nothing could be more ideal than the surroundings of Arrowe for this type of child. The education of these children is maintained by the attendance of the School Teacher on several days per week. Much useful occupational therapy is also provided.

The General Nursing Council have now insisted that every complete Training School must have a preliminary Training School attached to it, where Pupils receive instruction prior to entering the general wards of the Hospital. Owing to lack of accommodation at the Municipal Hospital, room has had to be found at Arrowe for this preliminary Training School, and plans have been devised for converting the ground wards into a lecture and demonstration room. The new Student Nurses will receive their elementary training here, and be resident at the Annexe. It is hoped that it will be possible to give them some practical instruction in nursing the convalescent cases, prior to their entering upon general training at the Municipal Hospital. The Council agreed to the appointment of a Sister Tutor for instructional purposes, and each course will last approximately three months. Certain alterations to the domestic quarters have been necessary in order to accommodate these Junior Student Nurses, and it is hoped that the preliminary Training School will be completed by the end of 1946.

The following table shows the number of admissions, births, discharges and deaths during the year 1945 :—

#### **Admissions and Births**

|                                                     | <b>Men</b>  | <b>Women</b> | <b>Children</b> | <b>Total</b> |
|-----------------------------------------------------|-------------|--------------|-----------------|--------------|
| In Hospital on 31st Dec., 1944 ...                  | 135         | 143          | 69              | 347          |
| From own homes and other Hospitals                  | 1113        | 2404         | 976             | 4493         |
| Service cases admitted .....                        | 144         | 6            | —               | 150          |
| From Birkenhead Institution .....                   | 29          | 21           | 75              | 125          |
| From Eastham House .....                            | 9           | 5            | 11              | 25           |
| Births in Hospital .....                            | —           | —            | 636             | 636          |
| Air raid casualties .....                           | 1           | 1            | —               | 2            |
| London Hospital Transfers—                          |             |              |                 |              |
| (a) Sick .....                                      | —           | 1            | —               | 1            |
| (b) Air Raid Casualties .....                       | —           | —            | —               | —            |
| Billeted Evacuees .....                             | 1           | 1            | 4               | 6            |
| <b>Total admissions and births .....</b>            | <b>1297</b> | <b>2439</b>  | <b>1702</b>     | <b>5438</b>  |
| <b>Total cases dealt with during the year .....</b> | <b>1432</b> | <b>2582</b>  | <b>1771</b>     | <b>5785</b>  |

### Discharges and Deaths

|                                                                   |      |      |      |      |
|-------------------------------------------------------------------|------|------|------|------|
| To own homes or other Hospitals ...                               | 815  | 2157 | 1494 | 4466 |
| Services cases discharged .....                                   | 156  | 5    | —    | 161  |
| To Birkenhead Institution .....                                   | 58   | 37   | 54   | 149  |
| Deaths in Hospital .....                                          | 278  | 223  | 115  | 616  |
| London Hospital Transfers—                                        |      |      |      |      |
| (a) Sick .....                                                    | 1    | 2    | —    | 3    |
| (b) Air Raid Casualties .....                                     | —    | 1    | —    | 1    |
| Billeted Evacuees .....                                           | 1    | 2    | 4    | 7    |
| Total Discharges and Deaths ...                                   | 1309 | 2427 | 1667 | 5403 |
| <hr/>                                                             |      |      |      |      |
| Civilian Cases in Hospital on 31st<br>December, 1945 .....        | 111  | 154  | 104  | 369  |
| Service Cases in Hospital on 31st<br>December, 1945 .....         | 12   | 1    | —    | 13   |
| Total Cases remaining in Hospital<br>on 31st December, 1945 ..... | 123  | 155  | 104  | 382  |

**Continuation Clinic and Out-patient Department.** The following is a summary of the attendances made in the Continuation Clinic and Out-patient Department.

|                         | New Cases. |     | Attendances. |                                     |
|-------------------------|------------|-----|--------------|-------------------------------------|
| Ear, Nose and Throat .. | 316        | ... | 583          |                                     |
| Ophthalmic .....        | 210        | ... | 546          |                                     |
| Post-Natal .....        | 166        | ... | 199          |                                     |
| Dental .....            | 47         | ... | 117          |                                     |
| Orthopaedic .....       | 207        | ... | 639          |                                     |
| Dressings .....         | 159        | ... | 2644         |                                     |
| Massage .....           | 135        | ... | 3345         |                                     |
| Diabetics .....         | 43         | ... | 613          |                                     |
| Medical Clinic .....    | 98         | ... | 157          | (Clinics est.<br>1st Oct.,<br>1945) |
| E.M.S. ....             | 16         | ... | 633          |                                     |

**Specimens sent to the Municipal Laboratory.** The following statement shows the number of specimens sent to the Municipal Laboratory during the year :—

|                            |      |       |
|----------------------------|------|-------|
| Swabs for Diphtheria ..... | Pos. | 12    |
|                            | Neg. | 558   |
| Sputum for Tubercle .....  | Pos. | 124   |
|                            | Neg. | 915   |
| Blood for Widal .....      | Pos. | —     |
|                            | Neg. | 26    |
| Blood for Wassermann ..... |      | 263   |
| Smears for Gonococci ..... |      | 144   |
| Other Examinations .....   |      | 10521 |
|                            |      | <hr/> |
|                            |      | 12563 |

G.P. Inoculations 44

**Maternity Cases.** Below is a summary of the Maternity cases dealt with at the Hospital during 1945 :—

| Total No.<br>of women<br>dealt with | Married | Single | Total No.<br>of children<br>dealt with | Live births | Still births |
|-------------------------------------|---------|--------|----------------------------------------|-------------|--------------|
| 668                                 | 591     | 77     | 682                                    | 640         | 42           |

**X-ray Department.** A summary of the work carried out at the X-ray Department during 1945 is set out below :—

In-patients :—

|                            | Cases | Radiographs taken |
|----------------------------|-------|-------------------|
| Stomach .....              | 333   | 1387              |
| Kidney .....               | 126   | 575               |
| Gall Bladder ....          | 85    | 242               |
| Chest .....                | 1324  | 1404              |
| General .....              | 940   | 1249              |
| In-patients screened ..... |       | 1790              |

Out-patients :—

|                                         | Cases | Radiographs taken |
|-----------------------------------------|-------|-------------------|
| Stomach .....                           | 9     | 43                |
| Kidney .....                            | 2     | 7                 |
| Chest .....                             | 1044  | 1457              |
| General .....                           | 247   | 650               |
| Out-patients screened .....             |       | 1800              |
| Total number of Radiographs taken ..... |       | 7014              |
| Total number of Patients screened ..... |       | 3590              |
| Electrocardiographs taken .....         |       | 50                |

**Surgical Operations.** The total number of Surgical operations carried out during the year was as follows :—

Operations carried out under :—

|                                     |      |
|-------------------------------------|------|
| General Anaesthetics .....          | 773  |
| Local .....                         | 93   |
| Spinal .....                        | 94   |
| Intravenous .....                   | 215  |
| No. ....                            | 5    |
| Total operations for 1945 .....     | 1181 |
| Operations for tonsils and adenoids |      |
| S.M.S. ....                         | 110  |
| Others .....                        | 6    |
| Eye operations .....                | 35   |
| Nasal .....                         | 4    |
| Dental .....                        | 0    |

**Arrowe Annexe.** The cases dealt with at the Arrowe Annexe are shown below :—

|                                                  | Men | Women | Children | Total |
|--------------------------------------------------|-----|-------|----------|-------|
| In Hospital on 31st Dec., 1944                   | 7   | 11    | 7        | 25    |
| <b>Admissions</b>                                |     |       |          |       |
| From Municipal Hospital ...                      | 235 | 385   | 151      | 771   |
| <b>Discharges</b>                                |     |       |          |       |
| To own Homes .....                               | 197 | 319   | 128      | 644   |
| To Birkenhead Municipal Hospital .....           | 16  | 23    | 6        | 45    |
| To Birkenhead Infectious Diseases Hospital ..... | —   | —     | 1        | 1     |
| To Birkenhead Orthopaedic Hospital .....         | —   | —     | 4        | 4     |
| To Military Camps .....                          | —   | —     | —        | —     |
| Died in Hospital .....                           | 2   | 1     | —        | 3     |
| Total Discharges .....                           | 215 | 343   | 139      | 697   |
| Total cases in Hospital at 31st Dec., 1945 ..... | 13  | 13    | 7        | 33    |

## MENTAL DEFICIENCY

One important administrative development occurred during the year. Section 2 (1) (b) (v) of the Mental Deficiency Act 1913 has been amended by the Eighth Schedule of the Education Act 1944 and Section 2 (2) of the Mental Deficiency Act 1913 has been repealed by the Ninth Schedule of the Education Act.

The effect of this amendment and repeal is to render a child between the ages of two and sixteen years subject to be dealt with under Section 2 (1) (b) (v) of the Mental Deficiency Act 1913 if he is a person " with respect to whom a report has been issued under the enactments relating to education that he has been found incapable of receiving education at school, or that by reason of a disability of mind he may require supervision after leaving school."

Section 57 (3) of the Education Act imposes upon local education authorities the duty of issuing to local authorities for the purpose of the Mental Deficiency Act, 1913, a report in the case of any child who is suffering from a disability of mind of such a nature or to such an extent as to make him incapable of receiving education at school.

Sub-section (5) prescribes that where the local education authority are satisfied that any child in attendance at a school maintained by them, or at any special school maintained by them, or at any special school not so maintained, is suffering from a disability of mind of such a nature or to such an extent that he will, in their opinion, require supervision after leaving school, the authority shall before the child ceases to be of compulsory school age issue to the Local Authority for the purposes of the Mental Deficiency Act 1913, and to the parent of the child, a report that by reason of a disability of mind the child may require supervision after leaving school.

*Mental deficiency*

The total number of cases under the care of the Mental Deficiency Acts Committee at the end of the year was 305. These had been dealt with in the following ways:—

|                                                                                                                                                                                                   | Males          |                   | Females        |                   | Total |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|----------------|-------------------|-------|
|                                                                                                                                                                                                   | Under 16 years | 16 years and over | Under 16 years | 16 years and over |       |
| Mental Defectives on the Register placed by the Committee under home supervision and not at present recommended by the Committee for institutional care .....                                     | 15             | 44                | 10             | 53                | 122   |
| Mental Defectives on the Register placed by the Committee under guardianship .....                                                                                                                | —              | 1                 | —              | —                 | 1     |
| Mental Defectives on the Register placed by the Committee temporarily under home supervision but recommended by the Committee for institutional care as soon as accommodation becomes available.. | 7              | 13                | —              | 2                 | 22    |
| Mental Defectives on the Register placed by the Committee in institutions:—                                                                                                                       |                |                   |                |                   |       |
| Ashton House .....                                                                                                                                                                                | —              | —                 | —              | 2                 | 2     |
| Brentry Colony .....                                                                                                                                                                              | —              | 1                 | —              | —                 | 1     |
| Crannage Hall .....                                                                                                                                                                               | 4              | 35                | 2              | 55                | 96    |
| Mary Dendy Home .....                                                                                                                                                                             | 1              | —                 | —              | —                 | 1     |
| Public Assistance Institution ....                                                                                                                                                                | —              | 20                | —              | 1                 | 21    |
| Rampton State Institution .....                                                                                                                                                                   | —              | —                 | —              | 2                 | 2     |
| Royal Albert Institution .....                                                                                                                                                                    | 2              | 4                 | —              | —                 | 6     |
| Royal Earlswood Institution ....                                                                                                                                                                  | —              | 1                 | —              | —                 | 1     |
| Stoke Park Colony .....                                                                                                                                                                           | —              | —                 | —              | 1                 | 1     |
| Mental Defectives on the Register placed in institutions (including State Institutions) by parents, Public Assistance Committee, etc.                                                             | 3              | 13                | 1              | 12                | 29    |
|                                                                                                                                                                                                   | 32             | 132               | 13             | 128               | 305   |

The following table shows the number of cases reported by the Local Education Authority under Section 57 of the Education Act 1944 and the method of disposal of such cases:—

|                                            | Males | Females | Total |
|--------------------------------------------|-------|---------|-------|
| Reported under Section 57 (3) .....        | 5     | 2       | 7     |
| "                    "          (5) .....  | —     | —       | —     |
| Total .....                                | 5     | 2       | 7     |
| Method of disposal:—                       |       |         |       |
| Sent to Institutions (by Order) .....      | —     | 1       | 1     |
| Placed under Guardianship (by Order) ..... | —     | —       | —     |
| Placed under Statutory Supervision ...     | 5     | 1       | 6     |
| Taken to "Place of Safety" .....           | —     | —       | —     |
| Died or Removed from Area .....            | —     | —       | —     |
| Action not yet taken .....                 | —     | —       | —     |
| Total .....                                | 5     | 2       | 7     |

## **WELFARE OF THE BLIND**

An additional Home Teacher was appointed in January, 1945; making a total of 3 now on the staff of the department.

The total number of blind persons on the Register at the end of the year was 263—139 males and 124 females.

The number of blind evacuees at the end of the year was 4.

The need for the provision of some form of residential accommodation for blind persons is becoming increasingly apparent, and should receive early consideration by the Council.

## **HOUSING AND ENVIRONMENTAL HYGIENE**

**Inspection of dwelling-houses, etc.**—This work still suffered during 1945 owing to shortage of staff. The normal staff consists of 14 Inspectors, including the Chief Sanitary Inspector, and one Sanitary Inspectors' Assistant.

Two of these were still serving in H.M. Forces at the end of the year; and two other posts were vacant.

The total number of premises inspected for housing and other defects under the Public Health or Housing Acts during the year was 10,412; 31,151 inspections were made for this purpose.

**Extermination of Rats and Mice.**—Under the Rats and Mice Destruction (Infestation) Order, 1943, the Local Authority is required to take concerted action for the destruction of rats and mice in their area. Three rodent operatives were engaged and trained for this work. Two of these three operatives were allotted for sewer treatment and the other for surface disinfestation.

The work of disinfestation of the sewers was begun in June, 1944, and the first and second treatments were completed during the present year. The treatment consisted of pre-baiting with unpoisoned bait on four consecutive days; poison baiting for one day; and removing unused bait on the sixth day. A second treatment of the sewers on identical lines was given after an interval of four weeks.

Maintenance treatment of the sewers is now being carried out as required by the Ministry of Food. Baiting is done through the sewer manholes, and the number of rats killed is estimated on a formula provided by the Ministry of Food.

The number of manholes treated during 1944 was 4,700; and 6,754 were treated during 1945. The estimated number of rats killed (based on the Ministry's formula) was 27,761 during 1944, and 40,315 during 1945.

Surface infestations have been dealt with whenever found, and the services of a rodent operative are available to business firms and householders where desired. A charge is made, except in certain circumstances, for these services, based on time and material used; and many firms have expressed their appreciation of the results achieved.

## **MATERNITY AND CHILD WELFARE**

### **Health of Children under five years of age**

The general standard of health, nutrition, and clothing of children up to the age of twelve months has been recorded as good during the year, in spite of the fact that fewer babies are breast fed. The value of vitamin preparations seem to be more generally appreciated by the mothers.

After the first year, however, a certain falling off in health and general welfare has been noted. This appears to be associated with the change over to a more mixed diet, and the general impression is one of anaemia, lassitude, susceptibility to colds, the development of urticarial rashes, and restless sleep. On the other hand, bony deformities, such as rickets, are far less marked; and there is a higher standard of clothing and cleanliness than in the older (school-age) children.

### **War-time Nurseries**

Throughout the year the attendances at the three War-time Nurseries have been most satisfactory, and the figures for 1945 show a substantial increase over the previous year.

The health of the children has been exceptionally good and there has been little or no infection. Clinics are conducted every fortnight in each Nursery, and every child over 10 months has been immunized against diphtheria. Any defects found have been attended to and the mothers have been very grateful for the treatment and care that has been given to their children. The babies are weighed every week, sometimes oftener if required, and the toddlers are weighed every month.

The Matrons are very interested in the children's diets, and well-balanced meals are given and enjoyed. A diet book is kept which is periodically examined by the Medical Officer.

The toddlers are trained by the Wardens and are able to sing songs, recite poetry, and even act in little plays. A display was given at the Cavendish Road Nursery, to which the mothers were invited, and all were highly delighted at the prowess shown by their children.

A questionnaire which was issued to the mothers showed that 100% wished the Nurseries to be kept open after the war, and the same percentage thought that their children had improved in health, habits and happiness.

The nursing staff has worked well and there have been very few changes. Ten probationers have been successful in obtaining the diploma of the National Society of Children's Nurseries.

The following figures show the number of attendances made during 1945 at each nursery :—

| Name of Nursery   | Capacity | No. of children on register during year |     | No. of attendances during year |      | Average attendance during year |     |
|-------------------|----------|-----------------------------------------|-----|--------------------------------|------|--------------------------------|-----|
|                   |          | 0-2                                     | 2-5 | 0-2                            | 2-5  | 0-2                            | 2-5 |
| Cavendish Road... | 45       | 40                                      | 66  | 4300                           | 9194 | 15                             | 33  |
| Old Chester Road. | 47       | 65                                      | 66  | 4009                           | 8479 | 14                             | 30  |
| Hollybank Road... | 38       | 43                                      | 101 | 4015                           | 7562 | 14                             | 27  |

### Midwives

101 midwives gave notice of their intention to practise in the Borough.

### Municipal Midwives

The following is a summary of the work of the nine whole-time Municipal midwives on the staff of the department:—

|                                    |        |
|------------------------------------|--------|
| Number of bookings .....           | 654    |
| Number of births .....             | 451    |
| Number of visits to patients ..... | 12,944 |

### Birkenhead Maternity Hospital Midwife

Under the terms of the agreement with the Birkenhead Maternity Hospital for domiciliary midwifery, the Hospital midwife carried out work as follows :—

|                                    |       |
|------------------------------------|-------|
| Number of bookings .....           | 81    |
| Number of births .....             | 83    |
| Number of visits to patients ..... | 1,376 |

### Home Visits

In connection with the Maternity and Child Welfare Scheme, visits were paid by the Health Visitors as follows :—

|                                                       |      |
|-------------------------------------------------------|------|
| To children under 1 year .....                        | 6658 |
| To children between 1 year & 5 years                  | 9925 |
| To expectant mothers .....                            | 114  |
| To mothers and children (miscellaneous matters) ..... | 3963 |

### Infant Welfare Clinics

At the infant welfare clinics 1,362 first visits and 17,444 revisits were made by children under 5 years of age. Of these, 1,261 (who made 5,244 revisits) were examined by an assistant medical officer.

Below is a table showing the number of births notified during the year in the areas associated with each clinic; and the number of infants under one year who have attended the clinics for the first time.

|                                        | North        | South        | Hamilton Sq. | Mount Grove | Total         |
|----------------------------------------|--------------|--------------|--------------|-------------|---------------|
| No. of births notified                 | 759          | 785          | 485          | 338         | 2367          |
| No. of infants who attended .....      | 477<br>(60%) | 498<br>(63%) | 227<br>(46%) | 160<br>47%  | 1362<br>(57%) |
| Supplies of free milk were given to :— | 28 infants   |              |              |             |               |

At the toddlers' clinics 220 first visits and 2,900 revisits were made.

### **Antenatal Clinics**

Antenatal clinic sessions were held on 149 occasions. The number of patients dealt with was 1,000, the total number of attendances being 3,027.

A small amount of postnatal work was carried out at the antenatal clinics; 10 mothers paid 12 visits.

### **Infant Life Protection**

At the end of the year the names of 40 children were entered on the Register in accordance with the provisions of Sections 206 to 220 of the Public Health Act, 1936.

### **Ophthalmia Neonatorum**

8 cases of Ophthalmia Neonatorum were notified during the year. 5 were treated at home and 3 in hospital. Vision was unimpaired.

### **Maternal Mortality**

The Registrar-General's annual statement of causes of death includes 6 deaths connected with pregnancy and childbirth.

This gives a maternal mortality rate of 2.33 per 1,000 births (living and still), as compared with a rate of 1.79 for the whole country.

The causes of the deaths were as follows:—

|                             |   |
|-----------------------------|---|
| Puerperal sepsis .....      | — |
| Other maternal causes ..... | 6 |

## **CIVIL DEFENCE MEDICAL SERVICE**

### **First aid posts**

The services of the full time paid-staff were retained after VE Day (8th May) for the purpose of clearing up. No staff, however, remained after 30th June, by which time the three remaining fixed first aid posts had been closed.

### **Civil Nursing Reserve**

Mrs. G. S. Prentice, Honorary Organising Chairman for the Civil Nursing Reserve for Birkenhead, resigned at the end of January her position as Organiser. Mrs. G. Walton, Staff Officer, First Aid Posts, very kindly offered to replace Mrs. Prentice as Organiser, while Mrs. Prentice continued to act as Chairman.

I should like to place on record my appreciation of the very valuable organising work carried out by Mrs. Prentice in a voluntary capacity since the inception of the local committee in May, 1939.

The enrolment figures of all Birkenhead Civil Nursing Reserve members up to the end of the year who were giving regular reliable service are as follows :—

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Full-time Nursing Auxiliaries (including<br>B.R.C.S. and S.J.A.B. members) ... | 60  |
| Part-time Nursing Auxiliaries (including<br>B.R.C.S. and S.J.A.B. members) ... | 200 |
| State Registered and Assistant Nurses<br>(full and part-time) .....            | 47  |

## HEALTH OF SCHOOL CHILDREN

### Staff

No changes in the whole-time medical staff engaged on School Health Service duties have to be reported; Dr. E. Blackstock, Dr. Anna M. Williams and Dr. Esmé I. Grant have continued to carry out school medical inspections and treatment in the maintained schools and in the clinics. Part-time medical assistance has been given during the year by Dr. Patricia I. Unsworth and Dr. Mary K. Hall of Liverpool; by Dr. Phyllis Marsh of Hoylake; and by Dr. V. O'Reilly, the Resident Medical Officer of the Infectious Diseases Hospital.

Mr. P. Wilson Smith, the Senior Dental Surgeon, has been assisted by Miss Evelyn M. Warlow, and by Mr. J. B. Andrew, who joined the staff in June, in the work of school dental inspection and treatment.

### Education Act, 1944

The Education Act, 1944, came into operation on the 1st April, 1945, and every effort is being made to implement the Sections relating to the work of the School Health Service.

Section 48 (3) requires that free medical treatment shall be provided for all pupils in attendance at maintained Primary and Secondary Schools. It is hoped that during 1946 arrangements will be made with the Voluntary and Municipal Hospitals in the area for the provision of certain kinds of in-patient and out-patient treatment which is not already covered by existing schemes.

In accordance with the above Section nickel framed spectacles, prescribed at the Education Committee's Eye Clinics, have been provided free of cost; codliver oil emulsion and vitamin preparations have been issued free to all children for whom they were recommended by the Assistant School Medical Officers; two children have been supplied with artificial limbs; and one child with an artificial eye.

Owing to insufficient accommodation being available at the Dental Clinic, and to the absence of two Assistant Dental Surgeons on war service, it has not been found possible to carry out the dental inspection of children in the pre-1944 Secondary Schools, required under Regulation 49 (2) of the Handicapped Pupils and School Health Service Regulations, 1945. It is anticipated, however, that before the end of 1946 the two Dental Surgeons will have resumed duty at the Clinic, and that new surgeries will have been opened. It will then be possible to hold dental inspections in all the maintained Primary and Secondary Schools, and to provide the necessary dental treatment at the Clinic.

### Orthopædic Clinic for Children

Mr. Horace Davies, the Consultant Orthopædic Surgeon in charge of the Education Committee's out-patient clinic, states in his annual report that, from an analysis of the detailed classification of orthopædic

defects treated during the year, it is apparent that the prevalence of postural errors in childhood remains high; and he stresses the importance of the work carried out at the Orthopædic Clinics.

Mr. Davies is of the opinion that more emphasis might be laid, in the Ministry of Education's school syllabus, upon postural exercises; and that greater interest on the part of parents and teachers in the posture of the individual child would prove beneficial.

Owing to the increasing size of the remedial exercise classes printed instruction sheets have been issued to patients so that the period of treatment might be shortened. These instruction sheets are issued, also, to all cases after the completion of training to ensure an adequate maintenance of correct posture and so prevent relapse.

During the year 83 orthopædic cases have been referred to the Municipal Hospital for operative treatment, and a high percentage of beneficial results has been obtained.

Details of the work carried out at the Orthopædic Clinic are given on pages 45—48 of this Report.

### **Municipal Skin Clinic**

During 1945 3,203 attendances were made by children of school age to the Municipal Skin Clinic, which remains under the care of Dr. E. Blackstock and the Nurse-in-Charge, Miss Beattie.

It is hoped that the transfer of the Clinic to the new premises in Balls Road, formerly used as a First Aid Post, will be effected early in the New Year. The new premises are sufficiently large to allow for the complete isolation of different types of skin diseases. This is an essential requirement of an efficiently-conducted Skin Clinic; it would be medically unsound to treat a verminous child with impetigo in the same room as one suffering from an allergic urticaria caused by eating food to which he is sensitive.

A number of other skin cases, which may be due to the deficiencies of our war-time diet, have required certain types of vitamin and drug injections. Treatment in such cases is lengthy and many attendances have to be made before a complete cure is effected.

A Skin Clinic for the treatment of uncleanness and diseases of the skin will remain an important part of the School Health Service work so long as overcrowding exists in so many of our industrial areas. The prevalence of impetigo, scabies and other skin diseases is due, in part, to the overcrowded conditions under which many families are compelled to live at the present time. Facilities for home treatment are rarely available and, recognizing this factor, the Ministry of Health make it obligatory for Local Authorities to set up Skin Clinics and Cleansing Centres.

The modern method of treatment has long passed the stage when patients are given a box of ointment for application at home. This method has proved unsatisfactory as many mothers when applying the ointment do so with such vigour that a condition of drug dermatitis is produced.

With the conversion of the Balls Road First Aid Post into a well equipped Skin Clinic, the staff will be in a position to deal with all classes of skin diseases, and, in particular, with a large number of cases which are occupying hospital beds at the present time.

### **Speech Therapy Clinic**

The Speech Therapy Clinic was re-opened in September at two centres in the Borough, at Trinity Street School and at Well Lane School.

Mrs. Peel, the Speech Therapist, states that an increasing number of children are being referred to her each month. A total of 134 children have been selected as requiring treatment; 74 for stammering and 60 for other speech defects, e.g. cleft palate, lisp, idioglossia, etc. Approximately 20 of these children have shown such marked improvement after comparatively short periods of treatment that it has been possible to discharge them from the Clinic.

On the whole the children have proved receptive to treatment, and their attendances at the Clinic have been regular. Mrs. Peel states that the co-operation of both teachers and parents has been of great value during the year.

### **General**

Every effort has been made during 1945 to complete the medical inspection of children in the four routine age groups, and to carry out periodic nutrition surveys of all children attending the Primary and Secondary Schools. With the exception of a small number of Entrants to the Primary Schools, who will be examined early in the New Year, this has been achieved.

Section 49 of the Handicapped Pupils and School Health Service Regulations, 1945, states that arrangements shall be made for the medical inspection of pupils who are admitted for the first time to maintained schools, and for pupils in their last years at Primary and Secondary Schools. In addition to these three age groups children, in Birkenhead, have been examined in an intermediate age group, i.e. on attaining the age of 8 years. The Education Committee consider that this age group is of great importance, as defects, particularly vision and orthopaedic defects, often become more apparent in children between the ages of 5 and 8 years, and permanent harm may be caused if these are not discovered until the child is eligible to leave the Primary School. It is proposed, therefore, to continue the examination of this intermediate age group.

The Assistant School Medical Officers in their work in Schools and clinics have noted, during the year, that the general health and nutrition of children in the first few years of school life is good, but that in a number of cases older children show signs of malnutrition and anaemia. A high proportion of these children, however, do not

require supplementary nourishment, as their condition is attributable to such factors as insufficient sleep, lack of parental care, various forms of neglect, and to definite medical defects. The parents of children found to be suffering from malnutrition are informed of the doctor's recommendations which may include visits to specialist or to minor ailments clinics, courses of treatment with codliver oil emulsion or vitamin preparations, and, in many cases, much earlier bed-times.

The consistently poor standard of the children's clothing and, in particular, of their footwear, has also been noted. Now that hostilities have ceased, however, with many women being released from the war-time industries and returning to the care of their homes and families, it is hoped that an improvement in the standard of cleanliness and in the general appearance of school children will become apparent.

Once again I would express my appreciation of the valuable assistance so readily given by Mr. Dempsey, the Director of Education, and by his staff; and of their continual interest in all aspects of School Health Service work.

## MEDICAL INSPECTION OF CHILDREN ATTENDING MAINTAINED PRIMARY AND SECONDARY SCHOOLS

(see note a)

### A.—ROUTINE MEDICAL INSPECTIONS

Number of Inspections in the Prescribed Groups (see note b)—

|                        |      |
|------------------------|------|
| Entrants .....         | 1651 |
| Second age group ..... | 1242 |
| Third age group .....  | 1455 |
| Total .....            | 4348 |

Number of other Routine Inspections (see note c)

|                                            |      |
|--------------------------------------------|------|
| Fourth age group .....                     | 1589 |
| Nursery Classes .....                      | 9    |
| Class for Partially Sighted Children ..... | 20   |
| Claughton Road Special School .....        | 60   |
| Total .....                                | 1678 |

Grand Total ..... 6026

### B.—OTHER INSPECTIONS

Number of Special Inspections (see note d) ..... 4174

|                  |      |
|------------------|------|
| In schools ..... | 17   |
| In clinics ..... | 4157 |

Number of Re-inspections (see note e) ..... 3620

|                  |      |
|------------------|------|
| In schools ..... | 2078 |
| In clinics ..... | 1542 |

Total ..... 7794

**CHILDREN FOUND TO REQUIRE TREATMENT**

Number of individual children found at routine medical inspection to require treatment (excluding defects of nutrition, uncleanliness and dental diseases).

Note.—No individual child is counted more than once in any column of this Table; for example, a child suffering from defective vision and from adenoids appears once in Column 2, once in Column 3 and once only in Column 4. Similarly a child suffering from two defects other than defective vision appears once only in Column 3 and once in Column 4.

| Group.<br>(1)                    | For defective vision<br>(excluding squint)<br>(2) | For all other<br>conditions recorded<br>in table on p. 36<br>(3) | Total.<br>(4) |
|----------------------------------|---------------------------------------------------|------------------------------------------------------------------|---------------|
| Entrants.....                    | 5                                                 | 199                                                              | 204           |
| Second Age Group.....            | 98                                                | 143                                                              | 234           |
| Third Age Group.....             | 132                                               | 160                                                              | 275           |
| Total (Prescribed Groups) .....  | 235                                               | 502                                                              | 713           |
| Other Routine Inspections ... .. | 137                                               | 136                                                              | 256           |
| Grand Total.....                 | 372                                               | 638                                                              | 969           |

## NOTES ON TABLES (Page 33)

(a) The return refers to a complete calendar year.

(b) This heading relates solely to the routine medical inspection of the three ordinary age groups, i.e., to medical inspections carried out in compliance with Section 49 (2) of the Handicapped Pupils and School Health Service Regulations, 1945, which states that "every pupil who is admitted for the first time to a maintained school shall be inspected as soon as possible after the date of his admission; every pupil attending a maintained Primary School shall be inspected during the last year of his attendance at such a school; and every pupil attending a maintained Secondary School shall be inspected during the last year of his attendance at such a school."

(c) Under this heading is recorded *routine* inspections, of children who do not fall under the three prescribed age groups, e.g., *routine* inspections of a fourth age-group (children who have attained the age of 8 years during the year in which the inspection takes place) or of other groups of children, as distinct from those who are individually selected on account of some suspected ill-health for "Special" Inspection.

(d) A Special Inspection is a medical inspection by the School Medical Officer himself or by one of the Medical Officers on his staff of a child specially selected or referred for such inspection, i.e., not inspected at a routine medical inspection as defined above. Such children may be selected by the Medical Officer during a visit to the School or may be referred to him by the Teachers, School Nurses, Attendance Officers, Parents, or otherwise. It is immaterial for the purpose of this heading whether the children are inspected at the School or at the Inspection Clinic or elsewhere. If a child happens to come before the School Medical Officer for special inspection during a year in which it falls into one of the routine groups, its routine inspection is entered in Part A of the table on page 9 headed "Routine Inspections" and its special inspection in Part B. The inspection recorded under the heading of special inspections is only the first inspection of the child so referred for a particular defect. If a child who has been specially inspected for one defect is subsequently specially inspected for another defect, such subsequent inspection is recorded as a Special Inspection and not as a Re-inspection.

(e) Under this heading is entered the medical inspections of children who as the result of a routine or special inspection come up later on for subsequent re-inspection, whether at the School or at the Inspection Clinic. The first inspection in every case is entered as a routine or special inspection as the case may be. Every subsequent inspection of the same defect is entered as a re-inspection.

Nothing is included under the head of special inspections or re-inspections except such inspections as are defined above. Attendances for treatment by a Nurse, or for examinations by anyone other than a Doctor on the staff of the School Health Service, are not recorded as medical inspections. If, however, at any such attendance a child is also examined by one of the Authority's Medical Officers, this is recorded as a special inspection or re-inspection as the case may be, even if treatment is also given; but such attendance is also of course recorded as an attendance for treatment.

## RETURN OF DEFECTS FOUND BY MEDICAL INSPECTION

| Defect or disease<br>(1)                                                                                  | Routine Inspections        |                                                                            | Special Inspections        |                                                                            |
|-----------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------|
|                                                                                                           | No. of defects             |                                                                            | No. of defects             |                                                                            |
|                                                                                                           | Requiring treatment<br>(2) | Requiring to be kept under observation, but not requiring treatment<br>(3) | Requiring treatment<br>(4) | Requiring to be kept under observation, but not requiring treatment<br>(5) |
| <i>Skin</i> .....                                                                                         |                            |                                                                            |                            |                                                                            |
| (1) Ringworm—Scalp .....                                                                                  | —                          | —                                                                          | 2                          | —                                                                          |
| (2) " —Body .....                                                                                         | 1                          | —                                                                          | 4                          | —                                                                          |
| (3) Scabies .....                                                                                         | 22                         | —                                                                          | 167                        | —                                                                          |
| (4) Impetigo .....                                                                                        | 4                          | —                                                                          | 88                         | —                                                                          |
| (5) Other diseases (non-tuberculous) .....                                                                | 24                         | 9                                                                          | 255                        | —                                                                          |
| <i>Eye</i> .....                                                                                          |                            |                                                                            |                            |                                                                            |
| (6) Blepharitis .....                                                                                     | 35                         | 7                                                                          | 124                        | —                                                                          |
| (7) Conjunctivitis .....                                                                                  | 11                         | 1                                                                          | 76                         | —                                                                          |
| (8) Keratitis .....                                                                                       | —                          | —                                                                          | —                          | —                                                                          |
| (9) Corneal ulcers .....                                                                                  | 2                          | 1                                                                          | 9                          | —                                                                          |
| (10) Other conditions (excluding defective vision and squint) .....                                       | 7                          | 2                                                                          | 118                        | —                                                                          |
| (11) Defective vision (excluding squint) .....                                                            | 372                        | 195                                                                        | 40                         | —                                                                          |
| (12) Squint .....                                                                                         | 35                         | 8                                                                          | 12                         | —                                                                          |
| <i>Ear</i> .....                                                                                          |                            |                                                                            |                            |                                                                            |
| (13) Defective hearing .....                                                                              | 7                          | 10                                                                         | 28                         | —                                                                          |
| (14) Otitis media .....                                                                                   | 11                         | 5                                                                          | 37                         | —                                                                          |
| (15) Other ear diseases .....                                                                             | 15                         | 1                                                                          | 263                        | —                                                                          |
| <i>Nose and throat.</i> .....                                                                             |                            |                                                                            |                            |                                                                            |
| (16) Chronic tonsillitis only .....                                                                       | 61                         | 95                                                                         | 243                        | —                                                                          |
| (17) Adenoids only .....                                                                                  | 7                          | 7                                                                          | 8                          | —                                                                          |
| (18) Chronic tonsillitis and adenoids .....                                                               | 25                         | 21                                                                         | 21                         | —                                                                          |
| (19) Other conditions .....                                                                               | 44                         | 14                                                                         | 151                        | —                                                                          |
| (20) Enlarged cervical glands (non-tuberculous) .....                                                     | 8                          | 27                                                                         | 88                         | —                                                                          |
| (21) Defective speech .....                                                                               | 5                          | 6                                                                          | 5                          | —                                                                          |
| <i>Heart and circulation</i> .....                                                                        |                            |                                                                            |                            |                                                                            |
| (22) Heart disease—Organic .....                                                                          | 2                          | 5                                                                          | 1                          | —                                                                          |
| (23) " —Functional .....                                                                                  | 15                         | 45                                                                         | 19                         | —                                                                          |
| (24) Anemia .....                                                                                         | 61                         | 30                                                                         | 93                         | —                                                                          |
| <i>Lungs</i> .....                                                                                        |                            |                                                                            |                            |                                                                            |
| (25) Bronchitis .....                                                                                     | 19                         | 9                                                                          | 37                         | —                                                                          |
| (26) Other non-tuberculous diseases .....                                                                 | 15                         | 14                                                                         | 68                         | —                                                                          |
| <i>Tuberculosis</i> .....                                                                                 |                            |                                                                            |                            |                                                                            |
| (27) Pulmonary—Definite .....                                                                             | 1                          | —                                                                          | —                          | —                                                                          |
| (28) " Suspected .....                                                                                    | 3                          | 5                                                                          | 2                          | —                                                                          |
| (29) Non-pulmonary—Glands .....                                                                           | 1                          | 3                                                                          | 1                          | —                                                                          |
| (30) " Bones and joints .....                                                                             | —                          | 1                                                                          | 1                          | —                                                                          |
| (31) " Skin .....                                                                                         | —                          | —                                                                          | —                          | —                                                                          |
| (32) " Other forms .....                                                                                  | —                          | 1                                                                          | 1                          | —                                                                          |
| <i>Nervous system</i> .....                                                                               |                            |                                                                            |                            |                                                                            |
| (33) Epilepsy .....                                                                                       | 1                          | 2                                                                          | 5                          | —                                                                          |
| (34) Chorea .....                                                                                         | —                          | —                                                                          | 3                          | —                                                                          |
| (35) Other conditions .....                                                                               | 5                          | 7                                                                          | 12                         | —                                                                          |
| <i>Deformities</i> .....                                                                                  |                            |                                                                            |                            |                                                                            |
| (36) Rickets .....                                                                                        | 1                          | —                                                                          | 2                          | —                                                                          |
| (37) Spinal curvature .....                                                                               | —                          | —                                                                          | —                          | —                                                                          |
| (38) Other forms .....                                                                                    | 112                        | 108                                                                        | 106                        | —                                                                          |
| (39) Other defects and diseases (excluding Defects of Nutrition, Uncleanliness and Dental Diseases) ..... | 122                        | 56                                                                         | 1988                       | —                                                                          |
| TOTAL .....                                                                                               | 1054                       | 695                                                                        | 4078                       | —                                                                          |

# **CLASSIFICATION OF THE NUTRITION OF CHILDREN INSPECTED DURING THE YEAR IN THE ROUTINE AGE GROUPS**

| Age groups                           | Number<br>of<br>Children<br>Inspected | A<br>(Excellent) |      | B<br>(Normal) |       | C<br>(Slightly<br>subnormal) |       | D<br>(Bad) |     |
|--------------------------------------|---------------------------------------|------------------|------|---------------|-------|------------------------------|-------|------------|-----|
|                                      |                                       | No.              | %    | No.           | %     | No.                          | %     | No.        | %   |
| Entrants.....                        | 1651                                  | 22               | 1.33 | 1509          | 91.40 | 118                          | 7.14  | 2          | .13 |
| Second Age Group ...                 | 1242                                  | 36               | 2.90 | 1101          | 88.65 | 104                          | 8.37  | 1          | .08 |
| Third Age Group ...                  | 1455                                  | 87               | 5.97 | 1241          | 85.30 | 125                          | 8.59  | 2          | .14 |
| Other Routine<br>Inspections.. ..... | 1678                                  | 124              | 7.39 | 1379          | 82.18 | 169                          | 10.07 | 6          | .36 |
| Total.....                           | 6026                                  | 269              | 4.47 | 5230          | 86.79 | 516                          | 8.56  | 11         | .18 |

## **RETURN OF ALL HANDICAPPED PUPILS IN THE AREA**

This return is in respect of all handicapped pupils in the area, and is not confined only to those for whom suitable accommodation is available.

For the purpose of this Table no child is included who has not been examined by the School Medical Officer, by a medical member of the Authority's staff, or by the Tuberculosis Officer.

The table is made up from the list of handicapped pupils as it stood on the last day of the calendar year.

Children sent by the Authority to Day or Residential Schools outside the area are included in this table; children who are living in Residential Schools in the area, or attend Day Schools in the area, but who come from other areas, are not included.

*No child is entered under more than one heading in this form*

## **BLIND PUPILS**

Blind pupils are defined by Regulation 3 (a) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who have no sight or whose sight is or is likely to become so defective that they require education by methods not involving the use of sight."

Number at Certified Schools for the Blind ..... 7

## **PARTIALLY SIGHTED PUPILS**

Partially sighted pupils are defined by Regulation 3 (b) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who by reason of defective vision cannot follow the ordinary curriculum without detriment to their sight or to their educational development, but can be educated by special methods involving the use of sight."

Children who are able by means of suitable glasses to read the ordinary school books used by children without fatigue or injury to their vision are not included in this table.

Number on register ..... 26

During the year 5 new cases were added to the register.

Below is a classification of the defects from which these partially sighted children suffer :

|                                               |       |
|-----------------------------------------------|-------|
| Cataract and congenital absence of iris ..... | 1     |
| Coloboma of the choroid nystagmus .....       | 1     |
| Congenital cataract .....                     | 2     |
| Myopia .....                                  | 13    |
| Hypermetropia .....                           | 5     |
| Coloboma of the iris and choroid .....        | 1     |
| Coloboma of the iris with leucoma .....       | 1     |
| Nystagmus .....                               | 2     |
|                                               | <hr/> |
|                                               | 26    |
|                                               | <hr/> |

## DEAF PUPILS

Deaf pupils are defined by Regulation 3 (c) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who have no hearing or whose hearing is so defective that they require education by methods used for deaf pupils without naturally acquired speech or language."

Number at Certified Schools for the Deaf ..... 18

## PARTIALLY DEAF PUPILS

Partially deaf pupils are defined by Regulation 3 (d) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils whose hearing is so defective that they require for their education special arrangements or facilities but not all the educational methods used for deaf pupils."

Number on register ..... 9

## EDUCATIONALLY SUBNORMAL PUPILS

Educationally subnormal pupils are defined by Regulation 3 (g) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who, by reason of limited ability or other conditions resulting in educational retardation, require some specialised form of education wholly or partly in substitution for the education normally given in ordinary schools."

Number on register ..... 104

*Cloughton Road Special School.*—In accordance with the arrangements for ascertainment, examinations of children suspected to be educationally subnormal were held at various schools and clinics during the year by the Assistant Medical Officers.

The results of these examinations are set out below:

|                                             |    |    |
|---------------------------------------------|----|----|
| Total number examined—Boys .....            | 38 |    |
| Girls .....                                 | 16 |    |
|                                             | —  | 54 |
| Number found to be educationally subnormal— |    |    |
| Boys .....                                  | 27 |    |
| Girls .....                                 | 14 |    |
|                                             | —  | 41 |

\* Four of these were recommended for admission to a residential special school and four were notified to the Local Authority under the Mental Deficiency Acts.

|                                                                             |    |    |
|-----------------------------------------------------------------------------|----|----|
| Number recommended to continue in attendance at ordinary schools—Boys ..... | 11 |    |
| Girls .....                                                                 | 2  |    |
|                                                                             | —  | 13 |

During the year Dr. Williams re-examined a number of children who were in attendance at Cloughton Road School.

The results of the examinations are set out below:

|                                                                                    |    |  |
|------------------------------------------------------------------------------------|----|--|
| Total number examined—Boys .....                                                   | 19 |  |
| Girls .....                                                                        | 14 |  |
|                                                                                    | —  |  |
| Total .....                                                                        | 33 |  |
| Number recommended for admission to a School for the Deaf—Boys .....               | —  |  |
| Girls .....                                                                        | 1  |  |
|                                                                                    | —  |  |
| Total .....                                                                        | 1  |  |
| Number recommended for admission to a Residential Special School—Boys .....        | 1  |  |
| Girls .....                                                                        | —  |  |
|                                                                                    | —  |  |
| Total .....                                                                        | 1  |  |
| Number recommended to continue in attendance at Cloughton Road School—Boys .....   | 16 |  |
| Girls .....                                                                        | 11 |  |
|                                                                                    | —  |  |
| Total .....                                                                        | 27 |  |
| Number notified to the Local Authority under the Mental Deficiency Acts—Boys ..... | 2  |  |
| Girls .....                                                                        | 2  |  |
|                                                                                    | —  |  |
| Total .....                                                                        | 4  |  |

A total of 9 children left school during the year

|                                               |   |
|-----------------------------------------------|---|
| (a) on reaching the age of 16 years .....     | 3 |
| (b) before reaching the age of 16 years ..... | 6 |

\* Four of these were notified to the Local Authority under the Mental Deficiency Acts, one was transferred to a School for the Deaf, and one was transferred to a Residential Special School.

## MALADJUSTED PUPILS

Maladjusted pupils are defined by Regulation 3 (i) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who show evidence of emotional instability or psychological disturbance and require special educational treatment in order to effect their personal, social, or educational readjustment."

A total of 14 pupils who fall within this category were examined by Mrs. Barton-Hall, the Consultant Psychiatrist, during the year.

After the examination of each child the parent, or guardian, was interviewed and advised with regard to the treatment and to the method of training, both at home and at school, which would prove most beneficial to the child.

*Mental Deficiency (Notification of Children) Regulations, 1928.—*

Statement of the number of children notified during the year ended 31st December, 1945, by the Local Education Authority to the Local Mental Deficiency Authority.

Total number of children notified ..... 8

Analysis of the above total

| Diagnosis                                                                                                       | Boys | Girls |
|-----------------------------------------------------------------------------------------------------------------|------|-------|
| 1. (i) Children incapable of receiving benefit or further benefit from instruction in a Special School          |      |       |
| (a) Idiots .....                                                                                                | —    | —     |
| (b) Imbeciles .....                                                                                             | 5    | 2     |
| (c) Others .....                                                                                                | —    | —     |
| (ii) Children unable to be instructed in a Special School without detriment to the interests of other children: |      |       |
| (a) Moral defectives.....                                                                                       | —    | —     |
| (b) Others .....                                                                                                | —    | —     |
| 2. Educationally subnormal pupils notified on leaving a Special School on or before attaining the age of 16     | 1    | —     |
| 3. Educationally subnormal pupils notified under Article 3, i.e. "special circumstances" cases .....            | —    | —     |
| 4. Children who in addition to being mentally defective were blind or deaf .....                                | —    | —     |
| Total.....                                                                                                      | 6    | 2     |

## EPILEPTIC PUPILS

Epileptic pupils are defined by Regulation 3 (h) of the Handicapped Pupils and School Health Service Regulations, 1945, as "pupils who by reason of epilepsy cannot be educated in an ordinary school without detriment to the interests of themselves or other pupils and require education in a Special School."

Number on register ..... 8

## PHYSICALLY HANDICAPPED PUPILS

## A.—TUBERCULOUS CHILDREN

Only children diagnosed as tuberculous and requiring treatment for tuberculosis at a sanatorium, a dispensary, or elsewhere are recorded in this category. Children suffering from crippling due to tuberculosis which is regarded as being no longer in need of treatment are recorded as crippled children, provided that the degree of crippling conforms to the description of a crippled child given at the head of Section C below. All other tuberculous children who are regarded as being no longer in need of treatment are recorded as delicate children provided the Medical Officer is prepared to certify under Regulation 3 (j) of the Handicapped Pupils and School Health Service Regulations, 1945, that they are incapable by reason of physical defect of receiving proper benefit from the instruction in ordinary schools.

I.—CHILDREN SUFFERING FROM PULMONARY TUBERCULOSIS  
(Including pleura and intra-thoracic glands)

Number on register ..... 19

II.—CHILDREN SUFFERING FROM NON-PULMONARY TUBERCULOSIS  
(This category includes tuberculosis of all sites other than those shown in (I) above)

Number on register ..... 42

## B.—DELICATE CHILDREN

This section is confined to children (except those included in other groups) whose general health renders it *urgently desirable* that they should be specially selected for admission to an Open Air School. Such children are included irrespective of the actual provision of Open Air Schools in the area, or of the practicability in present circumstances of sending the children to Residential Schools. Children are not classed as suitable for admission to an Open Air School unless the Medical Officer is prepared to certify under Regulation 3 (e) of the Handicapped Pupils and School Health Service Regulations, 1945, that they are incapable by reason of physical defect of receiving proper benefit from the instruction in ordinary schools.

Number on register ..... 3

The impression must not be conveyed that there are *only* three children of school age who would benefit from instruction in an Open Air School. There would be no difficulty in selecting hundreds of children who would benefit both physically and mentally from the special environment and special instruction which such a school would provide.

## C.—CRIPPLED CHILDREN

This section is confined to children (other than those diagnosed as suffering from tuberculosis and in need of treatment for that disease) who are suffering from a degree of crippling sufficiently severe to interfere materially with a child's normal mode of life, i.e., children who generally speaking are unable to take part, in any complete sense, in physical exercises or games or such activities of the school curri-

lum as gardening or forms of handwork usually engaged in by other children, and in whose case the Medical Officer is prepared to certify under Regulation 3 (j) of the Handicapped Pupils and School Health Service Regulations, 1945, that they are incapable by reason of such physical defect of receiving proper benefit from the instruction in ordinary schools.

Number on register ..... 10

#### D.—CHILDREN WITH HEART DISEASE

This section is confined to children in whose case the Medical Officer is prepared to certify, under Regulation 3 (j) of the Handicapped Pupils and School Health Service Regulations, 1945, that they are incapable by reason of such physical defect of receiving proper benefit from the instruction in ordinary schools.

Number on register ..... 10

#### CHILDREN SUFFERING FROM MULTIPLE DEFECTS

|                                                    |   |
|----------------------------------------------------|---|
| Partially Blind and Educationally Sub-normal ..... | 1 |
| Partially Blind and Partially Deaf .....           | 1 |
| Totally Deaf and Educationally Sub-normal .....    | 1 |
| Epileptic and Educationally Sub-normal .....       | 1 |
| Heart Disease and Educationally Sub-normal .....   | 1 |

## RETURN OF DEFECTS TREATED DURING THE YEAR

(see note a)

## GROUP I.—MINOR AILMENTS (excluding Uncleanliness, for which

(see Page 50)

| Disease or defect<br><br>(1)                                   | Number of defects treated, or under treatment, during the year. |                  |              |
|----------------------------------------------------------------|-----------------------------------------------------------------|------------------|--------------|
|                                                                | Under the Authority's scheme (see note b)<br>(2)                | Otherwise<br>(3) | Total<br>(4) |
| <i>Skin</i> —Ringworm—scalp—                                   |                                                                 |                  |              |
| (i.) X-Ray treatment .....                                     | —                                                               | —                | —            |
| (ii.) Other treatment .....                                    | 2                                                               | —                | 2            |
| Ringworm—body .....                                            | 3                                                               | —                | 3            |
| Scabies .....                                                  | 16                                                              | —                | 16           |
| Impetigo .....                                                 | 78                                                              | —                | 78           |
| Other skin diseases .....                                      | 211                                                             | 1                | 212          |
| <i>Minor eye defects</i> .....                                 | 284                                                             | —                | 284          |
| (external and other, but excluding cases falling in Group II.) |                                                                 |                  |              |
| <i>Minor ear defects</i> .....                                 | 273                                                             | 3                | 276          |
| <i>Minor nose and throat defects</i> .....                     | 144                                                             | 2                | 146          |
| <i>Miscellaneous</i> .....                                     | 1343                                                            | 25               | 1368         |
| (e.g., minor injuries, bruises, sores, chilblains, &c.)        |                                                                 |                  |              |
| Total ..                                                       | 2354                                                            | 31               | 2385         |

The number of children who received treatment at the General School Clinic was 2,084. The total attendances numbered 10,251.

During the past year the Health Visitors paid 712 visits to the homes of children with defects in connection with "following up"—672 first visits, 40 re-visits.

## GROUP II.—SCABIES AND OTHER SKIN DISEASES (excluding defects treated at the Minor Ailments Clinics)

| Disease or defect.                                     | Number of defects treated at the Municipal Skin Clinic during the year. |
|--------------------------------------------------------|-------------------------------------------------------------------------|
| Scabies :                                              |                                                                         |
| (a) uncomplicated .....                                | 257                                                                     |
| (b) complicated .....                                  | 231                                                                     |
| Scabies contacts (found to be free from scabies) ..... | 115                                                                     |
| Secondary dermatitis (following scabies) .....         | 17                                                                      |
| Diseases of the scalp (due to lice and nits) .....     | 255                                                                     |
| Other skin diseases .....                              | 140                                                                     |
| Total .....                                            | 1015                                                                    |

The total attendances made at the Clinic during the year numbered 3,203.

An average of 1.72 treatments only were required to effect a cure for each case of uncomplicated scabies.

GROUP III.—DEFECTIVE VISION AND SQUINT (excluding Minor Eye Defects treated as Minor Ailments—Group I.)

| Defect or disease<br><br>(1)                                                       | Number of defects dealt with                        |                  |              |
|------------------------------------------------------------------------------------|-----------------------------------------------------|------------------|--------------|
|                                                                                    | Under the Authority's scheme<br>(see note b)<br>(2) | Otherwise<br>(3) | Total<br>(4) |
| Errors of refraction (including squint) .....                                      | 760                                                 | 2                | 762          |
| Other defect or disease of the eyes<br>(excluding those recorded in Group I) ..... | —                                                   | —                | —            |
| Total.....                                                                         | 760                                                 | 2                | 762          |

|                                         | Under the Authority's scheme | Otherwise | Total |
|-----------------------------------------|------------------------------|-----------|-------|
| No of children for whom spectacles were |                              |           |       |
| (a) Prescribed .....                    | 611                          | 1         | 612   |
| (b) Obtained .....                      | 519                          | 1         | 520   |

Dr. Williams continued in charge of the Eye Clinic.

During the year 473 new cases were examined. Spectacles were prescribed for 231 of these, the remainder being found to be emmetropic or cases for whom spectacles were of no benefit. 614 children attended for re-examination and 519 pairs of spectacles (new or replaced) were supplied.

In addition to the above, 32 children of pre-school age attended the Eye Clinic for the first time and 11 attended for re-examination. 26 of the 33 pairs of spectacles prescribed for these children were obtained before the end of the year.

Under the terms of Section 48 (3) of the Education Act, 1944, commencing on the 1st April, 1945, spectacles recommended by the doctor in charge of the Eye Clinic were provided free of cost to children of school age. In cases where parents wish their children to have more expensive types of frames than those provided by the Local Authority they are required to bear the difference in the cost.

The total cost of all the spectacles which were ordered before the 1st April (including those ordered for pre-school children) was £70 9. 3d., of which the parents were required to pay £69 13. 6d. The total sum collected during the year (including arrears from previous years) was £69. 8. 0d.

36 new cases were examined and 76 re-examinations were carried out by Dr. Berkson, the Consultant Ophthalmic Surgeon, at the Birkenhead Municipal Hospital.

The new cases of strabismus noted during the year were as follows :

Convergent : Right eye 26, left eye 48, alternating 4.

GROUP IV.—TREATMENT OF DEFECTS OF NOSE AND THROAT

| Number of defects                                                     |      |       |      |                                                                            |      |       |      |           |      |       |      |                                       |
|-----------------------------------------------------------------------|------|-------|------|----------------------------------------------------------------------------|------|-------|------|-----------|------|-------|------|---------------------------------------|
| Received operative treatment                                          |      |       |      |                                                                            |      |       |      |           |      |       |      |                                       |
| Under the authority's scheme in clinic or hospital, (see note b, (1)) |      |       |      | By private practitioner or hospital, apart from the Authority's scheme (2) |      |       |      | Total (3) |      |       |      | Received other forms of treatment (4) |
| (i)                                                                   | (ii) | (iii) | (iv) | (i)                                                                        | (ii) | (iii) | (iv) | (i)       | (ii) | (iii) | (iv) | Total number treated (5)              |
| 10                                                                    | 36   | 67    | 3    | —                                                                          | —    | —     | —    | 10        | 36   | 67    | 3    | 123                                   |
|                                                                       |      |       |      |                                                                            |      |       |      |           |      |       |      | 239                                   |

(i) Tonsils only. (ii) Adenoids only. (iii) Tonsils and adenoids.  
(iv) Other defects of the nose and throat.

A total of 314 children referred to the Consultant Aurist and Laryngologist was examined during the year. .

GROUP V.—ORTHOPÆDIC AND POSTURAL DEFECTS (see note c)

|                            | Under the Authority's Scheme (see note b) (1.)    | Otherwise (2.)                                    | Total (3) |
|----------------------------|---------------------------------------------------|---------------------------------------------------|-----------|
|                            | Non-residential treatment at an Orthopædic Clinic | Non-residential treatment at an Orthopædic Clinic |           |
|                            | 326                                               | 4                                                 | 330       |
| Number of children treated |                                                   |                                                   |           |

1. *Examinations carried out at the clinic by the Orthopædic Surgeon.*—At the Clinic the Orthopædic Surgeon attended on 36 occasions during the year. The after-care sister also made 36 attendances.

328 new cases were dealt with, as compared with 234 in the previous year.

|                         |     |
|-------------------------|-----|
| Tuberculous cases ..... | 1   |
| Non-tuberculous cases—  |     |
| Under school age .....  | 158 |
| Of school age .....     | 169 |
| Over school age .....   | —   |
|                         | 328 |

There were 535 re-examinations made, as compared with 320 in 1944 :—

|                         |           |
|-------------------------|-----------|
| Tuberculous cases ..... | 19        |
| Non-tuberculous cases—  |           |
| Under school age .....  | 131       |
| Of school age .....     | 382       |
| Over school age .....   | 3         |
|                         | <hr/> 535 |

The average number of cases seen by the surgeon per session was 24.

In the following table Mr. Horace Davies sets out a classification of cases dealt with and shows the results of treatment :

| Disease Categories                   | New Cases        |     |               |     | Re-Examinations  |     |               |     | Discharged during 1945 |          |               |                   |
|--------------------------------------|------------------|-----|---------------|-----|------------------|-----|---------------|-----|------------------------|----------|---------------|-------------------|
|                                      | Under School Age |     | Of School Age |     | Under School Age |     | Of School Age |     | Cured                  | Relieved | Left district | Refused treatment |
|                                      | M.               | F.  | M.            | F.  | M.               | F.  | M.            | F.  |                        |          |               |                   |
| <b>Congenital Deformities:</b>       |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Trunk .....                          | 1                | ... | ...           | 1   | ...              | 1   | ...           | 2   | ...                    | ...      | ...           | ...               |
| Upper Limb .....                     | 2                | 2   | ...           | ... | ...              | ... | ...           | 1   | ...                    | ...      | ...           | ...               |
| Lower Limb .....                     | 9                | 6   | 1             | 5   | 11               | 15  | 11            | 5   | ...                    | 7        | 2             | ...               |
| <b>Acquired Deformities:</b>         |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Flat Foot .....                      | 27               | 17  | 14            | 27  | 48               | 38  | 140           | 105 | 48                     | ...      | ...           | ...               |
| Hallux Valgus .....                  | ...              | ... | ...           | 1   | ...              | ... | 1             | 7   | 2                      | ...      | ...           | ...               |
| Postural Kyphosis & Scoliosis .....  | 1                | ... | 3             | 5   | 1                | ... | 10            | 22  | ...                    | 2        | ...           | ...               |
| Knock Knee .....                     | 19               | 12  | 3             | 2   | 29               | 34  | 11            | 13  | 15                     | ...      | ...           | ...               |
| Bow Leg .....                        | 14               | 12  | ...           | ... | 12               | 6   | ...           | 2   | 6                      | ...      | ...           | ...               |
| Other Conditions .....               | 3                | 2   | 2             | 2   | ...              | ... | 4             | 5   | ...                    | 1        | 1             | ...               |
| <b>Affections of Skeleton:</b>       |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Rickets .....                        | 1                | ... | ...           | ... | 2                | ... | ...           | 2   | 1                      | ...      | ...           | ...               |
| Other Conditions .....               | ...              | ... | ...           | ... | ...              | 2   | ...           | ... | ...                    | ...      | ...           | ...               |
| <b>Affections of Nervous System:</b> |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Spastic Paralysis .....              | 2                | 3   | 1             | ... | 7                | 5   | 18            | 9   | ...                    | 8        | ...           | ...               |
| Infantile .....                      | 1                | ... | ...           | ... | 4                | 1   | 7             | 19  | ...                    | 1        | ...           | 1                 |
| Peripheral Nerve Lesions .....       | ...              | ... | ...           | ... | ...              | ... | ...           | 2   | ...                    | ...      | ...           | ...               |
| Other Conditions .....               | 3                | 1   | 2             | 1   | 1                | 2   | ...           | 4   | ...                    | ...      | ...           | ...               |
| <b>Affections of Bone:</b>           |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Osteomyelitis .....                  | ...              | ... | 1             | ... | ...              | ... | 1             | ... | ...                    | 1        | ...           | ...               |
| Tuberculosis .....                   | ...              | ... | ...           | ... | ...              | ... | 1             | ... | ...                    | ...      | ...           | ...               |
| Other Conditions .....               | ...              | 1   | 2             | 2   | ...              | ... | ...           | 1   | ...                    | ...      | ...           | ...               |
| <b>Affections of Joints:</b>         |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Tuberculous .....                    | ...              | ... | 1             | ... | ...              | ... | 5             | 12  | ...                    | 3        | ...           | ...               |
| Other Conditions .....               | ...              | 1   | 2             | 1   | ...              | ... | 2             | 4   | ...                    | ...      | ...           | ...               |
| <b>Affections of Spine:</b>          |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| Tuberculous .....                    | ...              | ... | ...           | 1   | ...              | ... | 1             | 5   | ...                    | 2        | ...           | ...               |
| Other Conditions .....               | ...              | ... | ...           | ... | ...              | ... | ...           | 1   | ...                    | ...      | ...           | ...               |
| <b>Affections of Epiphyses:</b>      |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| ... ..                               | ...              | ... | 2             | 3   | ...              | 1   | 2             | 1   | ...                    | ...      | ...           | ...               |
| <b>Affections of Soft Tissues:</b>   |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| ... ..                               | ...              | ... | 1             | 1   | ...              | ... | 2             | 1   | ...                    | 1        | ...           | ...               |
| <b>Complications of Trauma:</b>      |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| ... ..                               | 2                | ... | 3             | 1   | ...              | ... | 7             | 3   | ...                    | 3        | ...           | ...               |
| <b>No Abnormal Defect</b>            |                  |     |               |     |                  |     |               |     |                        |          |               |                   |
| ... ..                               | ...              | ... | 16            | 14  | ...              | ... | ...           | ... | ...                    | ...      | ...           | ...               |
| <b>Total</b> .....                   | 85               | 57  | 54            | 67  | 115              | 105 | 227           | 231 | 72                     | 29       | 3             | 1                 |

2. *Massage and remedial exercises*.—Massage and remedial exercises as prescribed by the Orthopædic Surgeon were provided by the Invalid Children's Association. (There are one whole-time and one part-time masseuse on the Association's staff.)

Attendance for massage and remedial exercises were made by clinic cases as follows :

|                         |      |
|-------------------------|------|
| Tuberculous cases ..... | —    |
| Non-tuberculous cases—  |      |
| Under school age .....  | 1393 |
| Of school age .....     | 5225 |
| Over school age .....   | —    |
|                         | 6618 |

In addition to the above, 532 attendances were made by non-clinic cases (that is to say, cases sent to the Association by orthopædic surgeons attached to voluntary hospitals, etc.) as follows:—

|                        |     |
|------------------------|-----|
| Under school age ..... | 64  |
| Of school age .....    | 458 |
| Over school age .....  | 10  |

3. *Surgical apparatus—splints, etc.*—These are provided by the Association, the number of cases dealt with during the past year being as follows :

|                        | Under School<br>Age | Of School<br>Age | Over School<br>Age |
|------------------------|---------------------|------------------|--------------------|
| Tuberculous cases—     |                     |                  |                    |
| Clinic cases .....     | 1                   | 5                | 1                  |
| Non-clinic cases ..... | —                   | 4                | 3                  |
| Non-tuberculous cases— |                     |                  |                    |
| Clinic cases .....     | 122                 | 183              | 12                 |
| Non-clinic cases ..... | 58                  | 102              | 16                 |

4. *Milk, tonics, convalescence, after-care.*—Most useful work is so done by the Association in providing milk, tonics, etc., for patients for whom these have been prescribed by the orthopædic surgeon and other doctors, and in following up and helping patients who have passed through the stage of active treatment :

|                                | Under School<br>Age | Of School<br>Age | Over School<br>Age |
|--------------------------------|---------------------|------------------|--------------------|
| Children supplied with milk—   |                     |                  |                    |
| Tuberculous cases—             |                     |                  |                    |
| Clinic cases .....             | —                   | —                | 1                  |
| Non-clinic cases .....         | —                   | 1                | —                  |
| Non-tuberculous cases—         |                     |                  |                    |
| Clinic cases .....             | —                   | 1                | —                  |
| Non-clinic cases .....         | —                   | 2                | 1                  |
| Children supplied with tonics— |                     |                  |                    |
| Tuberculous cases—             |                     |                  |                    |
| Clinic cases .....             | 3                   | 6                | 1                  |
| Non-clinic cases .....         | —                   | —                | —                  |
| Non-tuberculous cases—         |                     |                  |                    |
| Clinic cases .....             | 21                  | 32               | —                  |

## Children sent to Convalescent Homes and Country Hospitals—

|                               | Under School<br>Age | Of School<br>Age | Over School<br>Age |
|-------------------------------|---------------------|------------------|--------------------|
| <b>Tuberculous cases—</b>     |                     |                  |                    |
| Clinic cases .....            | —                   | 1                | —                  |
| Non-clinic cases .....        | —                   | —                | —                  |
| <b>Non-tuberculous cases—</b> |                     |                  |                    |
| Clinic cases .....            | 35                  | 168              | 5                  |
| Non-clinic cases .....        | 23                  | 54               | 12                 |

5. *Birkenhead Orthopaedic Hospital.*—At this institution children suffering from orthopaedic defects of tuberculous origin are treated. Many are cases who have passed through a course of treatment at Leasowe Hospital, or are awaiting admission to that institution.

6. *Treatment by Ultra-Violet Rays.*—At the North Clinic a total of 20 children of school age made 231 attendances during the year.

|                     | Improved | Not<br>Improved | Died | Still under<br>treatment at<br>end of year |
|---------------------|----------|-----------------|------|--------------------------------------------|
| Malnutrition .....  | 2        | —               | —    | —                                          |
| Debility .....      | 2        | —               | —    | 4                                          |
| Tuberculosis .....  | —        | —               | —    | 2                                          |
| Anæmia .....        | 2        | —               | —    | —                                          |
| Bronchitis .....    | 2        | —               | —    | —                                          |
| Rickets .....       | 1        | —               | —    | —                                          |
| Other conditions... | 5        | —               | —    | —                                          |
|                     | 14       | —               | —    | 6                                          |
|                     | —        | —               | —    | —                                          |

In addition 283 attendances were made by children below and above school age.

At the South Clinic a total of 13 children of school age made 223 attendances during the year.

|                     | Improved | Not<br>Improved | Died | Still under<br>treatment at<br>end of year |
|---------------------|----------|-----------------|------|--------------------------------------------|
| Malnutrition .....  | 1        | —               | —    | —                                          |
| Debility .....      | 1        | —               | —    | —                                          |
| Tuberculosis .....  | —        | 1               | —    | 1                                          |
| Anæmia .....        | 1        | —               | —    | —                                          |
| Bronchitis .....    | 1        | —               | —    | —                                          |
| Rickets .....       | 2        | —               | —    | —                                          |
| Other conditions... | 5        | —               | —    | —                                          |
|                     | 11       | 1               | —    | 1                                          |
|                     | —        | —               | —    | —                                          |

In addition 1,934 attendances were made by children below and above school age.

At the premises of the Invalid Children's Association a total of 113 children of school age made 2,034 attendances during the year.

|                     | Improved | Not<br>Improved | Died | Still under<br>treatment at<br>end of year |
|---------------------|----------|-----------------|------|--------------------------------------------|
| Debility .....      | 54       | 10              | —    | 29                                         |
| Tuberculosis .....  | 7        | 6               | —    | 4                                          |
| Anæmia .....        | —        | —               | —    | —                                          |
| Bronchitis .....    | —        | —               | —    | —                                          |
| Rickets .....       | 2        | —               | —    | 1                                          |
| Other conditions... | —        | —               | —    | —                                          |
|                     | 63       | 16              | —    | 34                                         |
|                     | —        | —               | —    | —                                          |

In addition 613 attendances were made by children below and above school age.

# DENTAL INSPECTION AND TREATMENT

(1) Number of children who were:—

(a) Inspected by the Dentist :

Routine age groups—

|               |      |
|---------------|------|
| aged 5 .....  | 418  |
| aged 6 .....  | 1125 |
| aged 7 .....  | 1138 |
| aged 8 .....  | 1168 |
| aged 9 .....  | 1044 |
| aged 10 ..... | 1187 |
| aged 11 ..... | 1060 |
| aged 12 ..... | 1021 |
| aged 13 ..... | 1030 |
| aged 14 ..... | 143  |

9334

(b) Specials (see note e) ..... 2035

(c) TOTAL (Routine and Specials) ..... 11369

(2) Number found to require treatment ..... 7521

(3) Number actually treated ..... 5388

(4) Attendances made by children for treatment ..... 6748

(5) Half-days devoted to :—

|                     |      |
|---------------------|------|
| Inspection .....    | 136  |
| Treatment .....     | 1035 |
| Clerical work ..... | 86   |
| Total —             | 1257 |

(6) Fillings (see note f):—

|                       |      |
|-----------------------|------|
| Permanent Teeth ..... | 2906 |
| Temporary Teeth ..... | 52   |
| Total —               | 2958 |

(7) Extractions :—

|                       |      |
|-----------------------|------|
| Permanent Teeth ..... | 1614 |
| Temporary Teeth ..... | 5341 |
| Total —               | 6955 |

(8) Administrations of general anaesthetic for extractions ... 2313

(9) Other Operations :—

|                       |      |
|-----------------------|------|
| Permanent Teeth ..... | 2061 |
| Temporary Teeth ..... | 289  |
| Total —               | 2350 |

**Cleanliness of teeth.**—The children examined were classified according to cleanliness of teeth as follows :

|                    |      |
|--------------------|------|
| Clean .....        | 4437 |
| Fairly clean ..... | 3973 |
| Dirty .....        | 924  |
|                    | 9334 |

**Condition of gums.**—The following figures show the condition of the gums of the children examined :

|                     |      |
|---------------------|------|
| Gums healthy .....  | 7602 |
| Gums inflamed ..... | 935  |
| Gums septic .....   | 797  |
|                     | 9334 |

**Condition of bite.**—This was found to be as set out below :

|                 |       |
|-----------------|-------|
| Bite good ..... | 7723  |
| Bite fair ..... | 1454  |
| Bite bad .....  | 157   |
|                 | <hr/> |
|                 | 9334  |
|                 | <hr/> |

Notices were sent to the parents of the 7,521 children found to require dental treatment, with the following results:—

|                                                       |       |
|-------------------------------------------------------|-------|
| Refused to have treatment done or did not reply ...   | 461   |
| Stated that treatment would be obtained privately ... | 578   |
| Requested treatment at the Dental Clinic .....        | 6482  |
|                                                       | <hr/> |
|                                                       | 7521  |
|                                                       | <hr/> |

Of the 6,482 children for whom treatment at the clinic was requested :

|                                                    |
|----------------------------------------------------|
| 4917 were treated before the end of the year       |
| 820 did not attend when sent for                   |
| 745 were awaiting treatment at the end of the year |
| <hr/>                                              |
| 6482                                               |
| <hr/>                                              |

The total number of children treated at the clinic during 1945 was :

|                                     |       |
|-------------------------------------|-------|
| Following on 1944 inspections ..... | 471   |
| Following on 1945 inspections ..... | 4917  |
|                                     | <hr/> |
|                                     | 5388  |
|                                     | <hr/> |

4,583 treatments were completed during the year.

946 parents paid 1s. each and 2 parents 6d. each for treatment for their children, the total amount paid being £47. 7. 0d. 4,442 children were treated free of charge.

## UNCLEANLINESS AND VERMINOUS CONDITIONS

- (i) Average number of visits per school made during the year by the Health Visitors and Nurses' Assistants ... 19
- (ii) Total number of examinations of children in the schools by Health Visitors and Nurses' Assistants ..... 66890
- (iii) Number of *individual* children found unclean (*see note g*) ..... 3064

The Health Visitors paid 134 visits to the homes of children in regard to uncleanliness and verminous disease (91 first visits, 43 re-visits).

In accordance with a scheme to assist mothers engaged on essential work to keep their children's heads free from infectious skin disease 247 children made 790 attendances at the Municipal Skin Clinic for treatment during the year.

## NOTES ON TABLES (pages 43-50)

(a) The Table deals with all defects treated during the year, however they were brought to the Authority's notice, i.e., whether by routine inspection, special inspection, or otherwise, during the year in question or previously.

(b) This heading includes all cases that received treatment under definite arrangements or agreements for treatment made by the Local Education Authority and sanctioned by the Ministry of Education under Section 48 of the Education Act, 1944. Cases which, after being recommended for treatment or advised to obtain it, actually received treatment by private practitioners, or by means of direct application to hospitals, or by the use of hospital tickets supplied by private persons, etc., are entered under other headings.

(c) Postural defects which received non-residential treatment otherwise than at an orthopaedic clinic are not recorded in this Table.

(d) A child may be recorded in more than one category and therefore the total number of children treated will not necessarily be the same as the sum of the figures in the separate categories.

(e) The heading "Specials" in this Table relates to all children inspected by the School Dentist otherwise than in the course of the routine inspection of children in one of the age groups covered by the Authority's approved scheme, namely, to children specially selected by him, or referred by Medical Officers, Parents, Teachers, etc., on account of urgency.

(f) Temporary fillings, whether in permanent or temporary teeth, are recorded as other operations.

(g) (i) All cases of uncleanliness, however slight, are recorded.

(ii) The return relates to individual children and not to instances of uncleanliness.

**DIRECT GRANT AIDED SCHOOLS**

At the present time routine medical inspections are carried out at only one direct-grant aided school, The Holt Hill Convent School.

Details of the medical inspections carried out in 1945 are given hereunder.

**A.—ROUTINE MEDICAL INSPECTIONS**

|                                          |     |
|------------------------------------------|-----|
| Number of children inspected .....       | 106 |
| Number of children found defective ..... | 12  |

**B.—RE-INSPECTIONS.**

|                                    |     |
|------------------------------------|-----|
| Number of children inspected ..... | 291 |
|------------------------------------|-----|

Treatment is provided at the Local Authority's Clinics for all children of school age irrespective of the schools which they attend.

As the number of pupils from the direct-grant aided schools who received treatment during the year is so small, it has been included in the treatment returns for the various clinics which are given on the preceding pages.

**MISCELLANEOUS**

**Children and Young Persons Act, 1933.**—6 children summoned to appear before the Police Court were examined in accordance with the provisions of this Act.

**Employment of Children Byelaws.**—57 children were medically examined as to fitness for work under these byelaws. Certificates were granted in 52 cases.

**Past Infectious Diseases.**—Enquiry was made at each routine medical inspection as to the infectious diseases from which the children might have suffered.

(1) Children aged 3—9

|                             | No. of<br>Cases | Percentage |
|-----------------------------|-----------------|------------|
| No Infectious Disease ..... | 114             | 3.87       |
| Measles .....               | 2690            | 89.98      |
| Whooping Cough .....        | 1536            | 52.99      |
| Scarlet Fever .....         | 330             | 11.41      |
| Diphtheria .....            | 141             | 4.87       |
| Chicken Pox .....           | 1275            | 44.00      |
| Mumps .....                 | 802             | 27.61      |

(2) Children aged 10—14

|                             | No. of<br>Cases | Percentage |
|-----------------------------|-----------------|------------|
| No Infectious Disease ..... | 69              | 2.25       |
| Measles .....               | 2804            | 91.45      |
| Whooping Cough .....        | 1747            | 56.98      |
| Scarlet Fever .....         | 471             | 15.36      |
| Diphtheria .....            | 314             | 10.24      |
| Chicken Pox .....           | 1767            | 57.63      |
| Mumps .....                 | 1215            | 39.63      |

Note.—The same child may have had more than one of these diseases.

**Co-operation of Parents.**—Parents attended at the examination of 3,247 (54.43%) of the 5,966 children dealt with at routine inspections.

| Group                 | Parents Present |
|-----------------------|-----------------|
| Nursery Classes ..... | 88.89%          |
| Entrants .....        | 88.55%          |
| 2nd age group .....   | 75.93%          |
| 3rd age group .....   | 39.07%          |
| 4th age group .....   | 16.11%          |

**Vaccination.**—In the ordinary inspections children were examined as to vaccination marks. Of the 5,966 children examined

|               |                    |
|---------------|--------------------|
| 2646 (44.33%) | showed no marks    |
| 3085 (51.71%) | showed one mark    |
| 162 ( 2.72%)  | showed two marks   |
| 23 ( 0.39%)   | showed three marks |
| 51 ( 0.85%)   | showed four marks  |

**Height and weight.**—Below are set out the average heights and weights (measured without footwear) of children who were examined during the course of routine inspections.

| Age.           | Height |     |       |       |     |       |
|----------------|--------|-----|-------|-------|-----|-------|
|                | Boys   |     |       | Girls |     |       |
|                | No.    | Ft. | Ins.  | No.   | Ft. | Ins.  |
| 3 years .....  | 5      | 3   | 4.00  | 6     | 3   | 3.00  |
| 4 years .....  | 108    | 3   | 6.24  | 104   | 3   | 5.78  |
| 5 years .....  | 462    | 3   | 8.14  | 384   | 3   | 7.70  |
| 6 years .....  | 191    | 3   | 9.90  | 210   | 3   | 8.96  |
| 7 years .....  | 71     | 3   | 11.62 | 44    | 4   | 0.46  |
| 8 years .....  | 452    | 4   | 2.88  | 349   | 4   | 2.44  |
| 9 years .....  | 194    | 4   | 3.98  | 182   | 4   | 4.06  |
| 10 years ..... | 15     | 4   | 4.86  | 5     | 4   | 4.20  |
| 11 years ..... | 41     | 4   | 7.46  | 47    | 4   | 9.12  |
| 12 years ..... | 493    | 4   | 9.28  | 538   | 4   | 10.22 |
| 13 years ..... | 325    | 5   | 0.62  | 250   | 5   | 1.92  |
| 14 years ..... | 383    | 5   | 1.24  | 329   | 5   | 1.94  |

| Age            | Weight |     |       |       |     |       |
|----------------|--------|-----|-------|-------|-----|-------|
|                | Boys   |     |       | Girls |     |       |
|                | No.    | St. | Lbs.  | No.   | St. | Lbs.  |
| 3 years .....  | 5      | 3   | 0.20  | 6     | 2   | 7.66  |
| 4 years .....  | 108    | 2   | 3.68  | 104   | 2   | 12.10 |
| 5 years .....  | 463    | 3   | 3.22  | 385   | 3   | 1.26  |
| 6 years .....  | 191    | 3   | 6.28  | 207   | 3   | 4.14  |
| 7 years .....  | 72     | 3   | 10.56 | 44    | 3   | 11.18 |
| 8 years .....  | 479    | 4   | 3.00  | 367   | 4   | 1.44  |
| 9 years .....  | 197    | 4   | 5.04  | 184   | 4   | 4.30  |
| 10 years ..... | 15     | 4   | 8.20  | 5     | 4   | 2.60  |
| 11 years ..... | 42     | 5   | 5.28  | 47    | 5   | 7.60  |
| 12 years ..... | 497    | 5   | 11.20 | 545   | 5   | 13.92 |
| 13 years ..... | 328    | 6   | 9.20  | 254   | 7   | 3.50  |
| 14 years ..... | 383    | 6   | 6.50  | 330   | 7   | 3.24  |

